

PRIOR ART

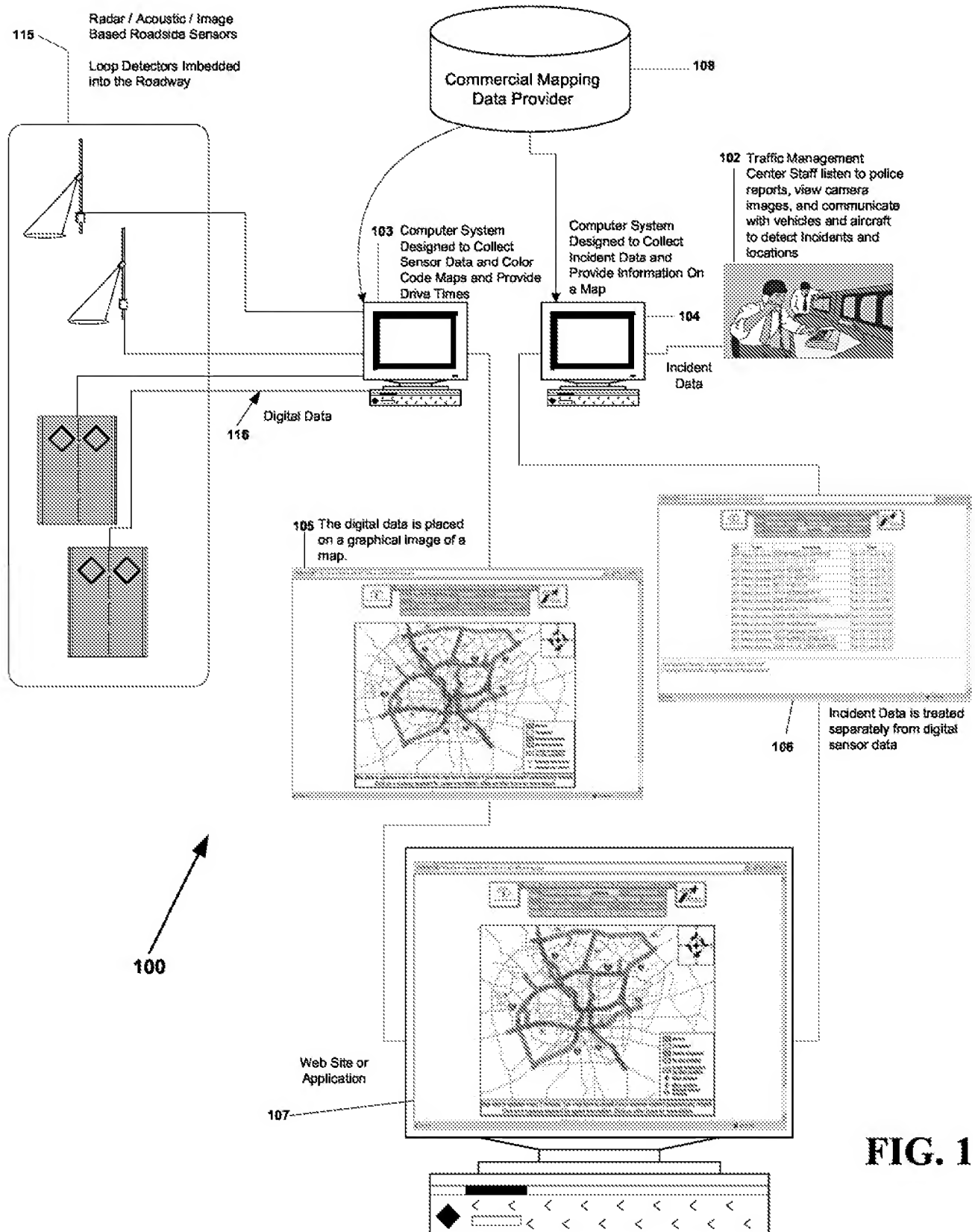
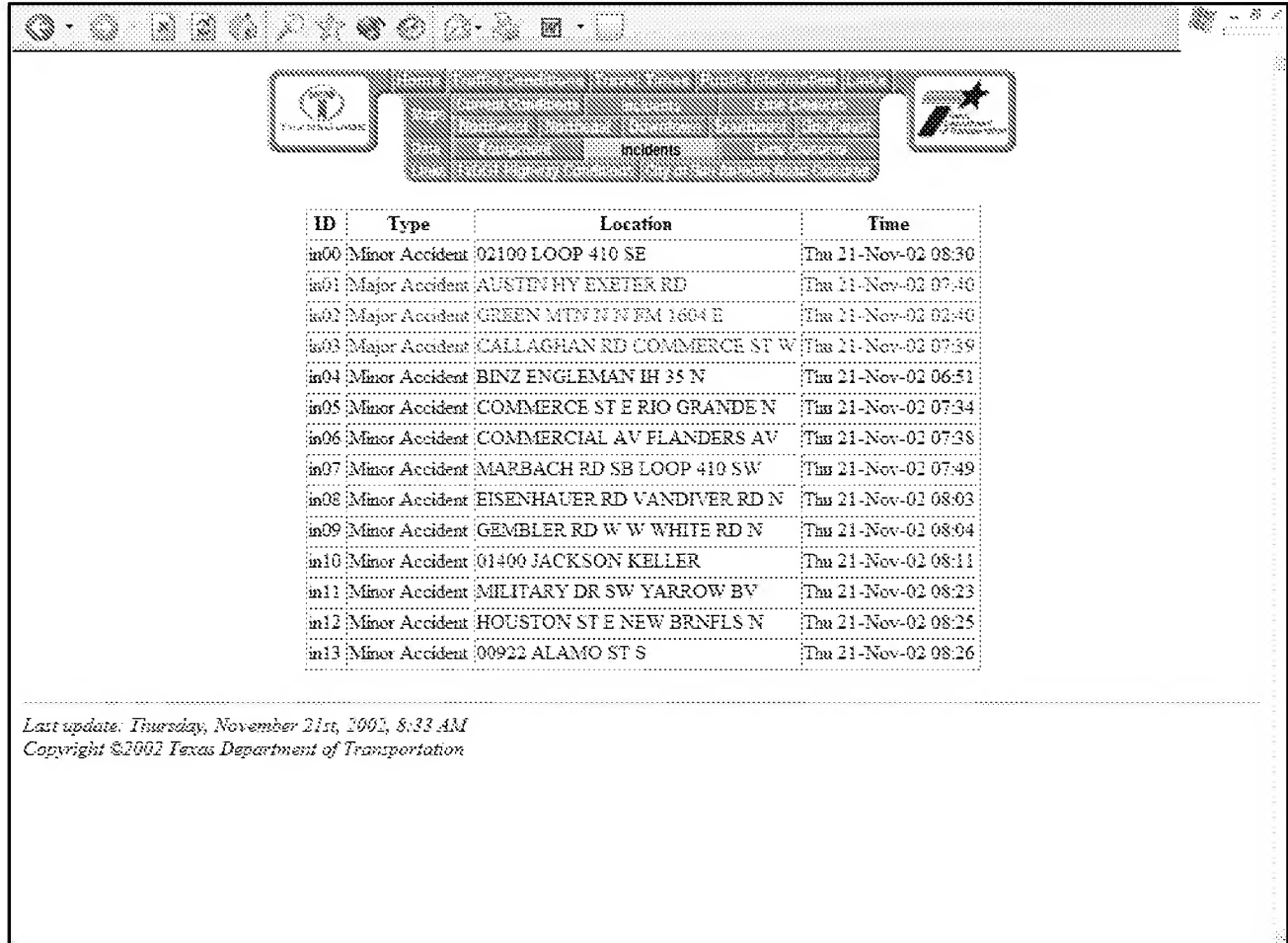


FIG. 1

PRIOR ART

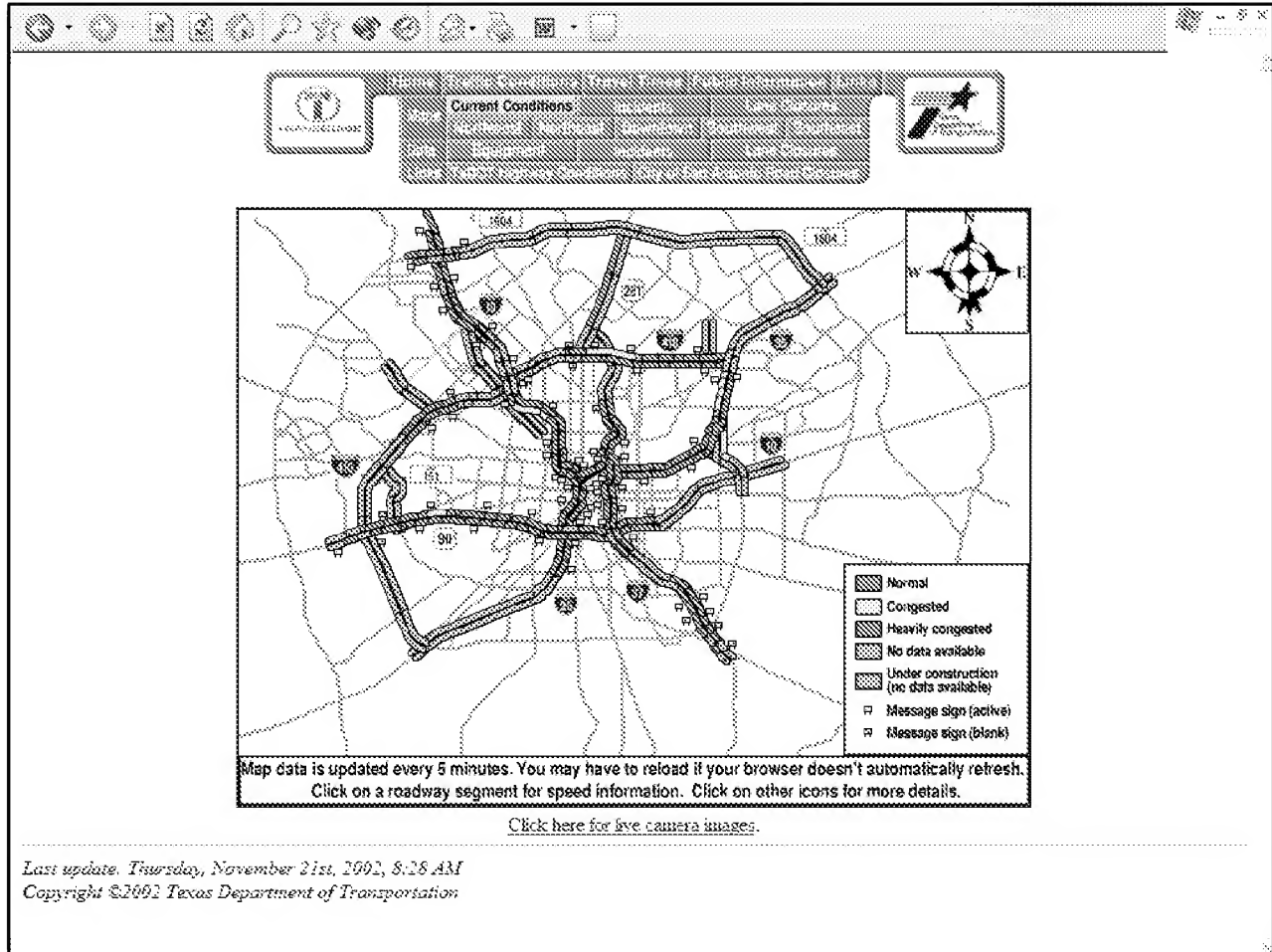


ID	Type	Location	Time
in00	Minor Accident	02100 LOOP 410 SE	Thu 21-Nov-02 08:30
in01	Major Accident	AUSTIN HY EXETER RD	Thu 21-Nov-02 07:40
in02	Major Accident	GREEN MTN N W FM 1604 E	Thu 21-Nov-02 02:40
in03	Major Accident	CALLAGHAN RD COMMERCE ST W	Thu 21-Nov-02 07:39
in04	Minor Accident	BINZ ENGLEMAN IH 35 N	Thu 21-Nov-02 06:51
in05	Minor Accident	COMMERCE ST E RIO GRANDE N	Thu 21-Nov-02 07:34
in06	Minor Accident	COMMERCIAL AV FLANDERS AV	Thu 21-Nov-02 07:38
in07	Minor Accident	MARBACH RD SB LOOP 410 SW	Thu 21-Nov-02 07:49
in08	Minor Accident	EISENHAUER RD VANDIVER RD N	Thu 21-Nov-02 08:03
in09	Minor Accident	GEMBLER RD W W WHITE RD N	Thu 21-Nov-02 08:04
in10	Minor Accident	01400 JACKSON KELLER	Thu 21-Nov-02 08:11
in11	Minor Accident	MILITARY DR SW YARROW BV	Thu 21-Nov-02 08:23
in12	Minor Accident	HOUSTON ST E NEW BRNFLS N	Thu 21-Nov-02 08:25
in13	Minor Accident	00922 ALAMO ST S	Thu 21-Nov-02 08:26

Last update: Thursday, November 21st, 2002, 8:33 AM
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FIG. 2

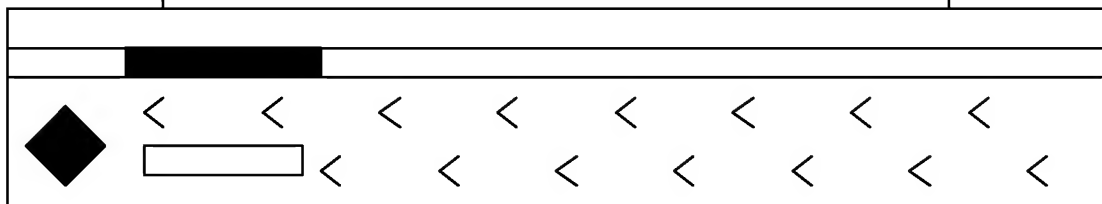
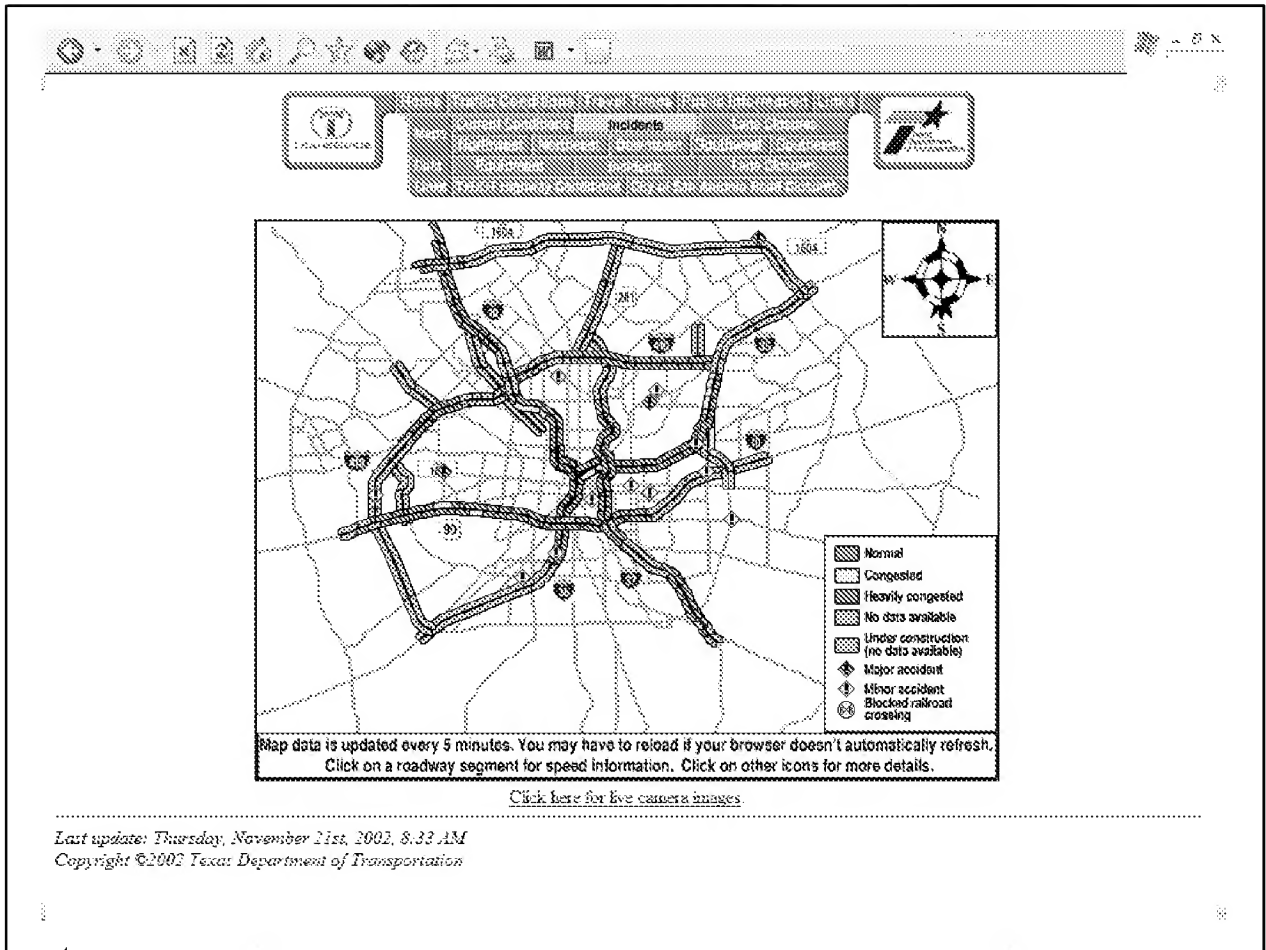
PRIOR ART



105

FIG. 3

PRIOR ART



107

FIG. 4

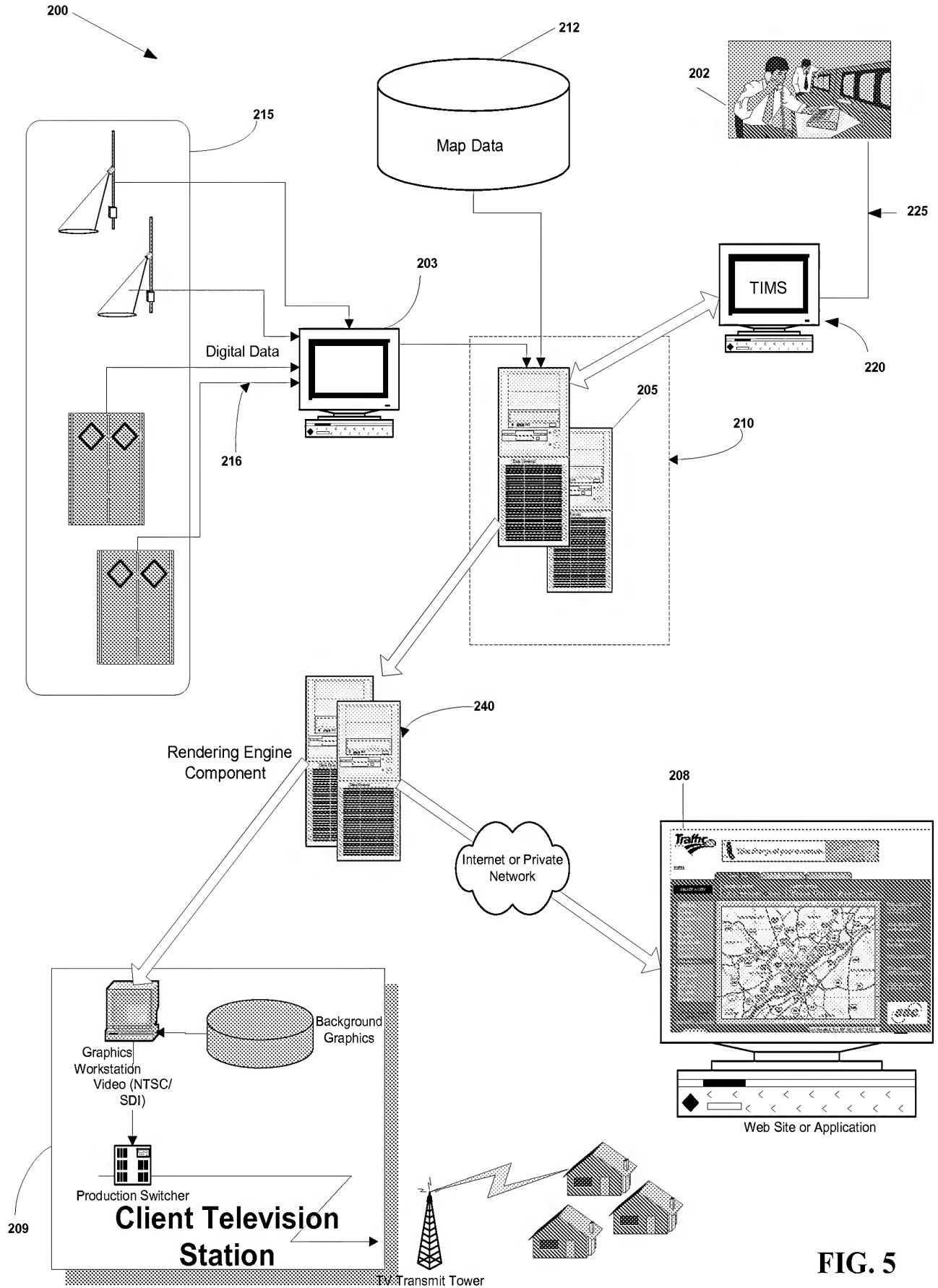
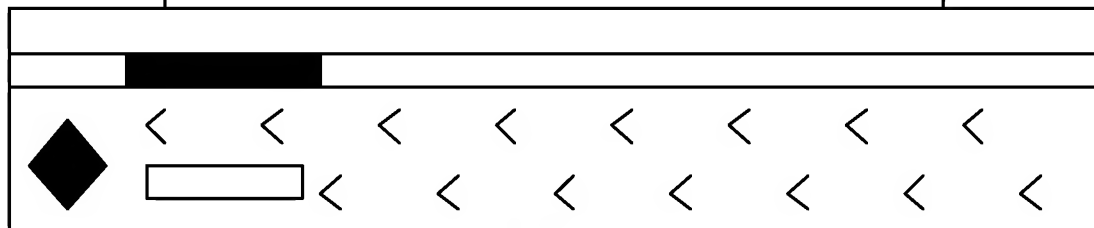
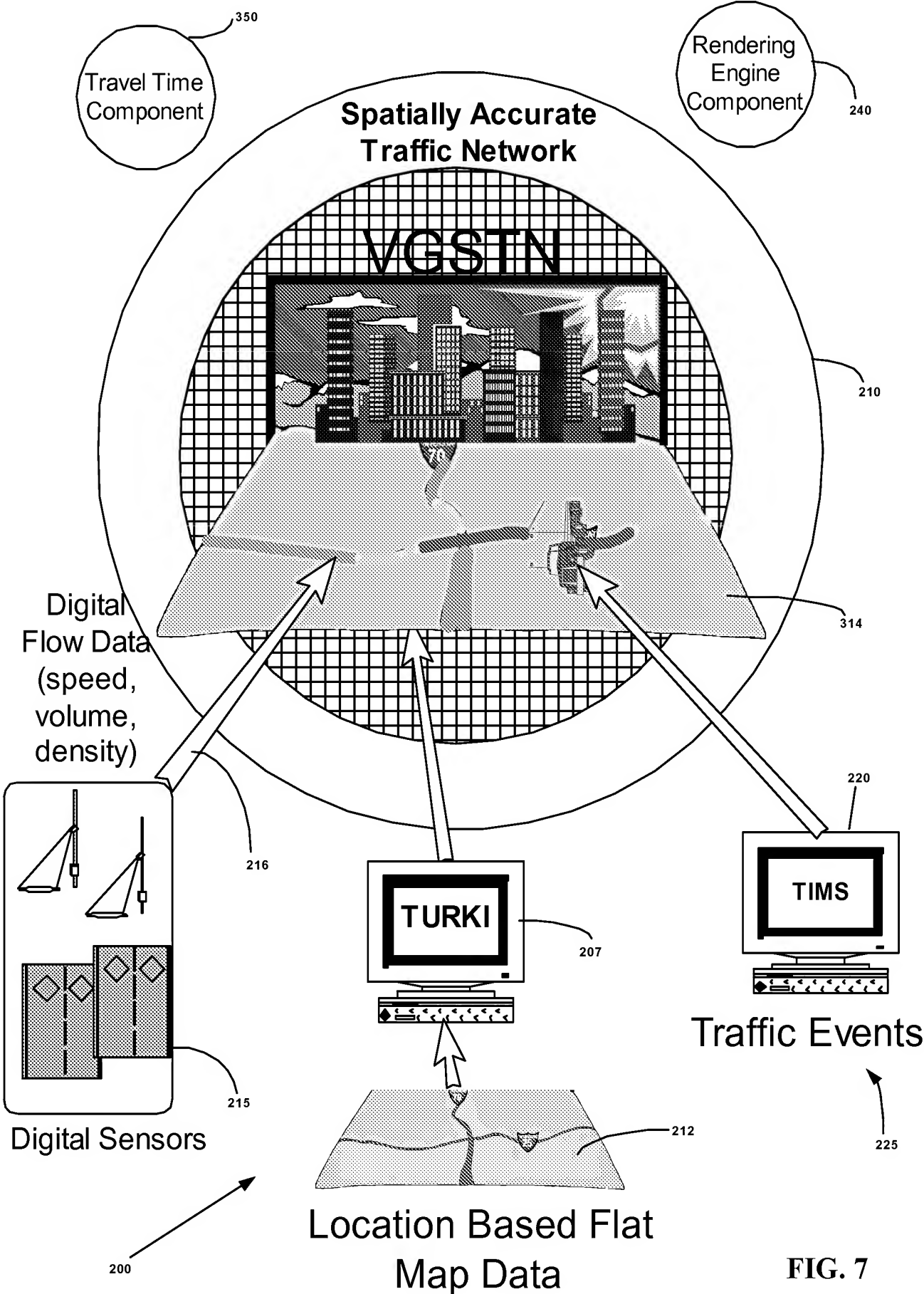


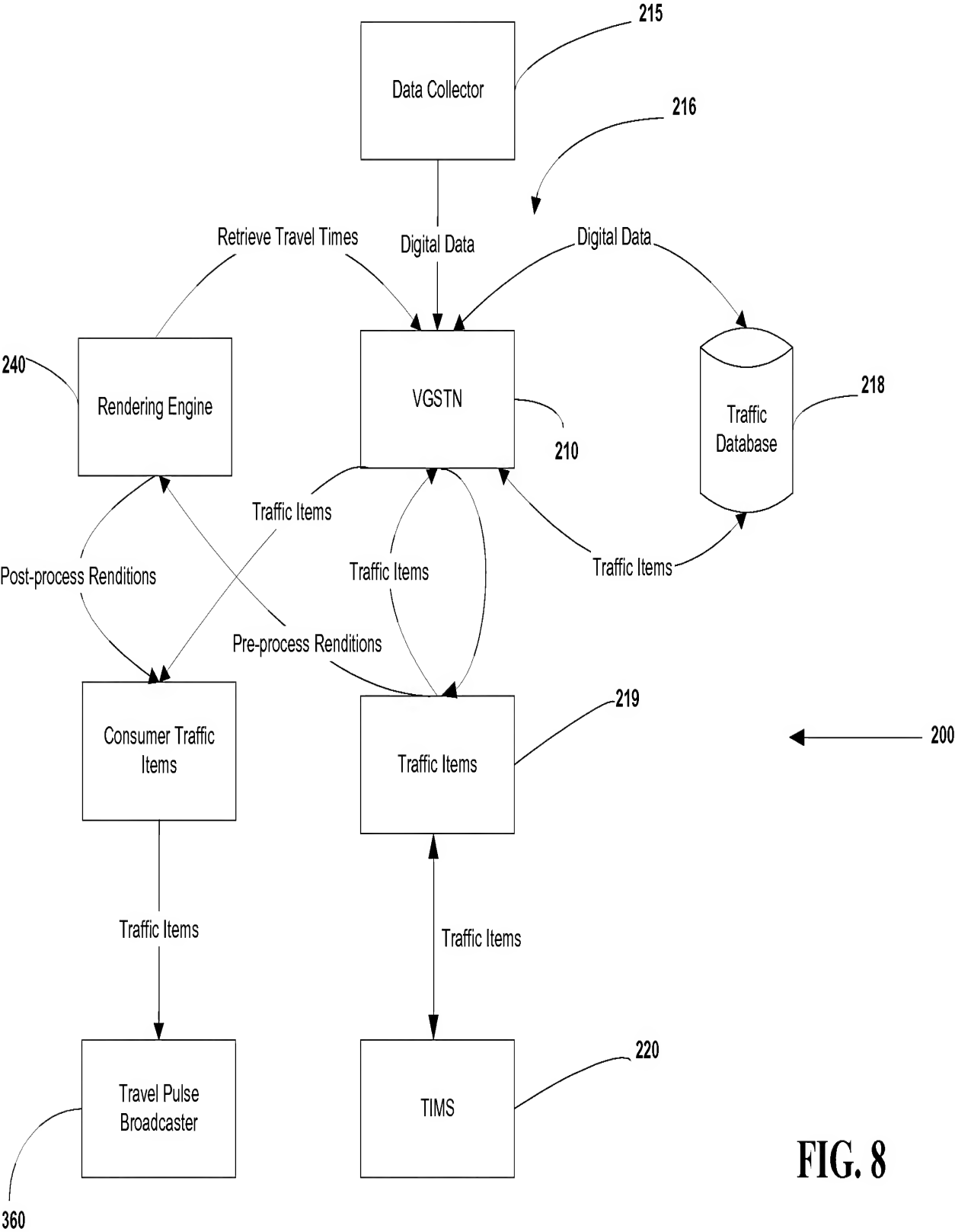
FIG. 5



Web Site or Application

FIG. 6





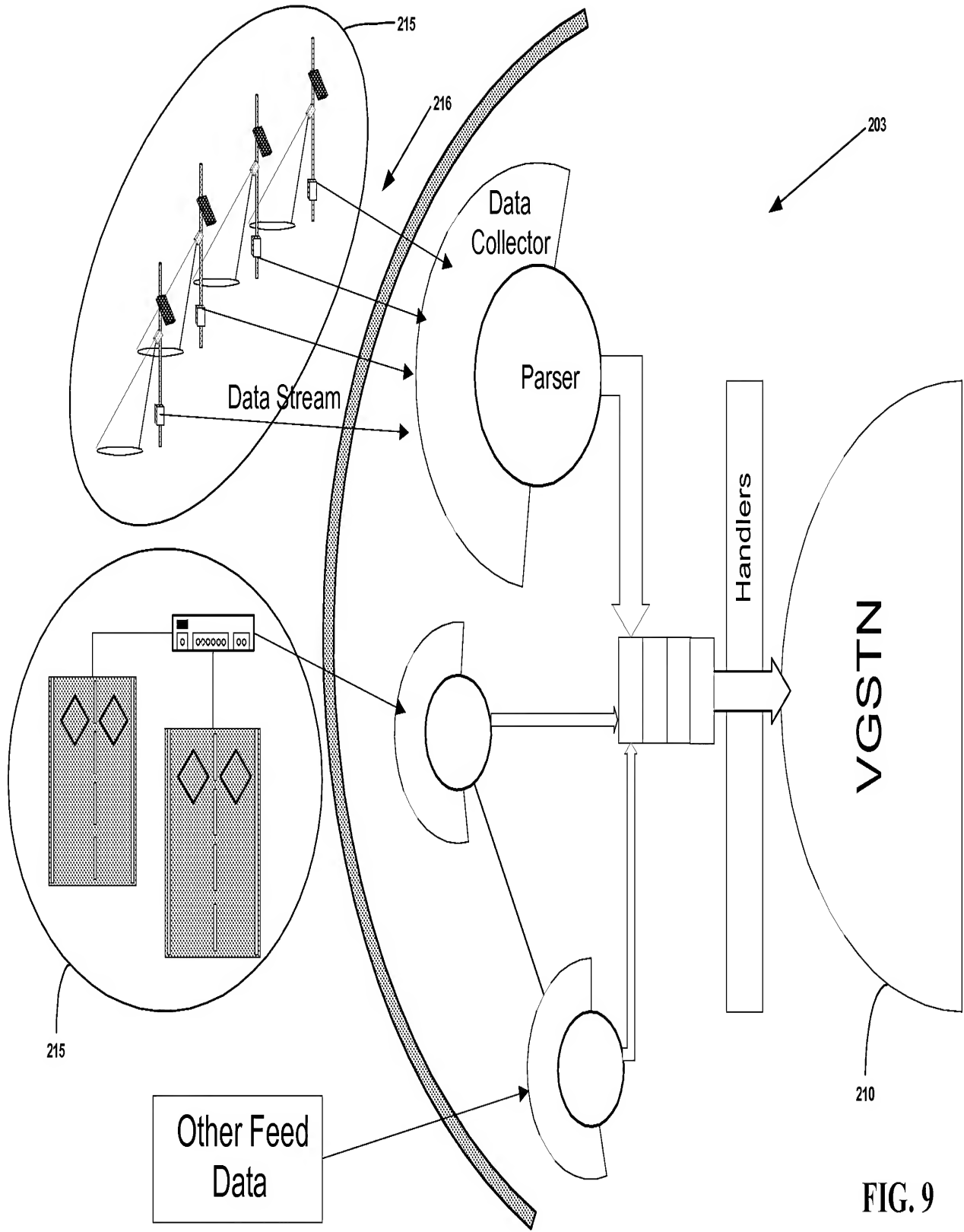


FIG. 9

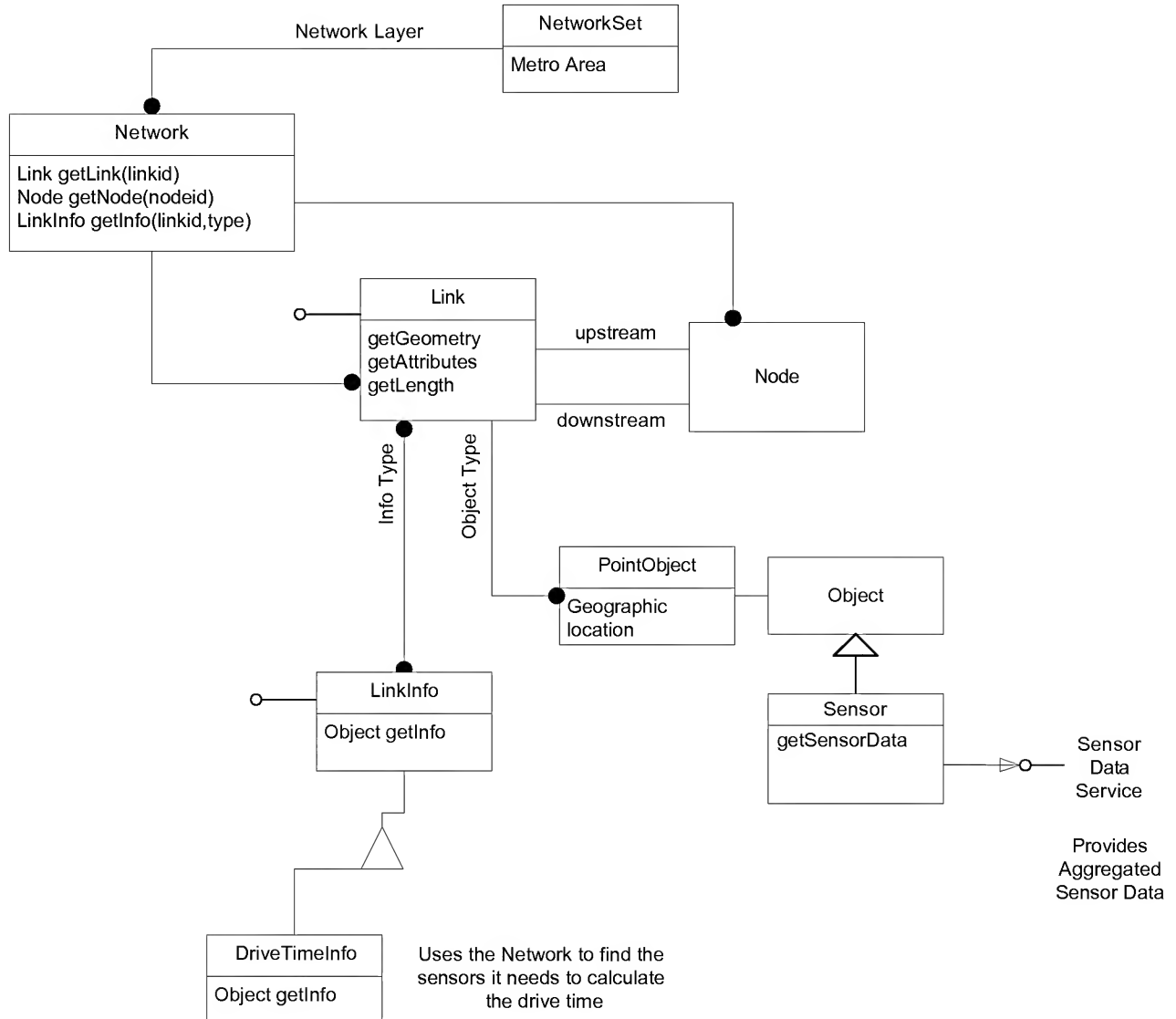


FIG. 10

Table of Stored Procedures for the TURKI

TURKI Procedure	Purpose or Function
check_roadway_flags	TURKI can not inactivate a roadway that is on the “roadway short” or “report no problem” lists in the TIMS. This procedure is called to determine if a given roadway is part of those lists.
insert_roadway	Creates a new roadway.
create_road_from_intersections	Creates a new roadway using an array of intersection points.
split_roadway	Splits an existing roadway into 2 roadways.
insert_roadway_aliases	Reinserts new aliases to the roadway alias table 275 for any type passed other than unchangeable commercial mapping data.
insert_road_direction_aliases	Reinserts new aliases to the roadway direction alias table 274 for any type passed other than unchangeable commercial mapping data.
insert_point_aliases	Reinserts new aliases to the point alias table 262 for any type passed other than unchangeable commercial mapping data.
insert_new_point	Creates a new point with reference to an existing point.
insert_point_from_intersection	Creates new point(s) on a roadway from an intersection.
insert_point_from_another_road	Creates a new point from another roadway.
update_point	Updates the status description and point type description of an existing non-commercial mapping data type point.
change_roadway_status	Updates the status description of an existing roadway.
change_point_on_road_status	Updates the status description of an existing point on a roadway.
delete_point	Deletes a point identification from a given roadway, as long as it is not an original NavTech point, and has not yet been referenced by any application.
insert_point_visibility_codes	Returns a list of visibility type codes for a point and roadway.
calculate_geoloc	Returns a list of direction values.
update_start_end_point_on_road	Updates the start and the end point for a given roadway_id.
assign_points_sequence	Assigns a point to a roadway.
insert_new_point_calc_geoloc	Creates a new point in reference to an existing point. This procedure calculates a GeoLoc based on the i_distance_percentage value.

FIG. 11

Road Network Schema Location Section

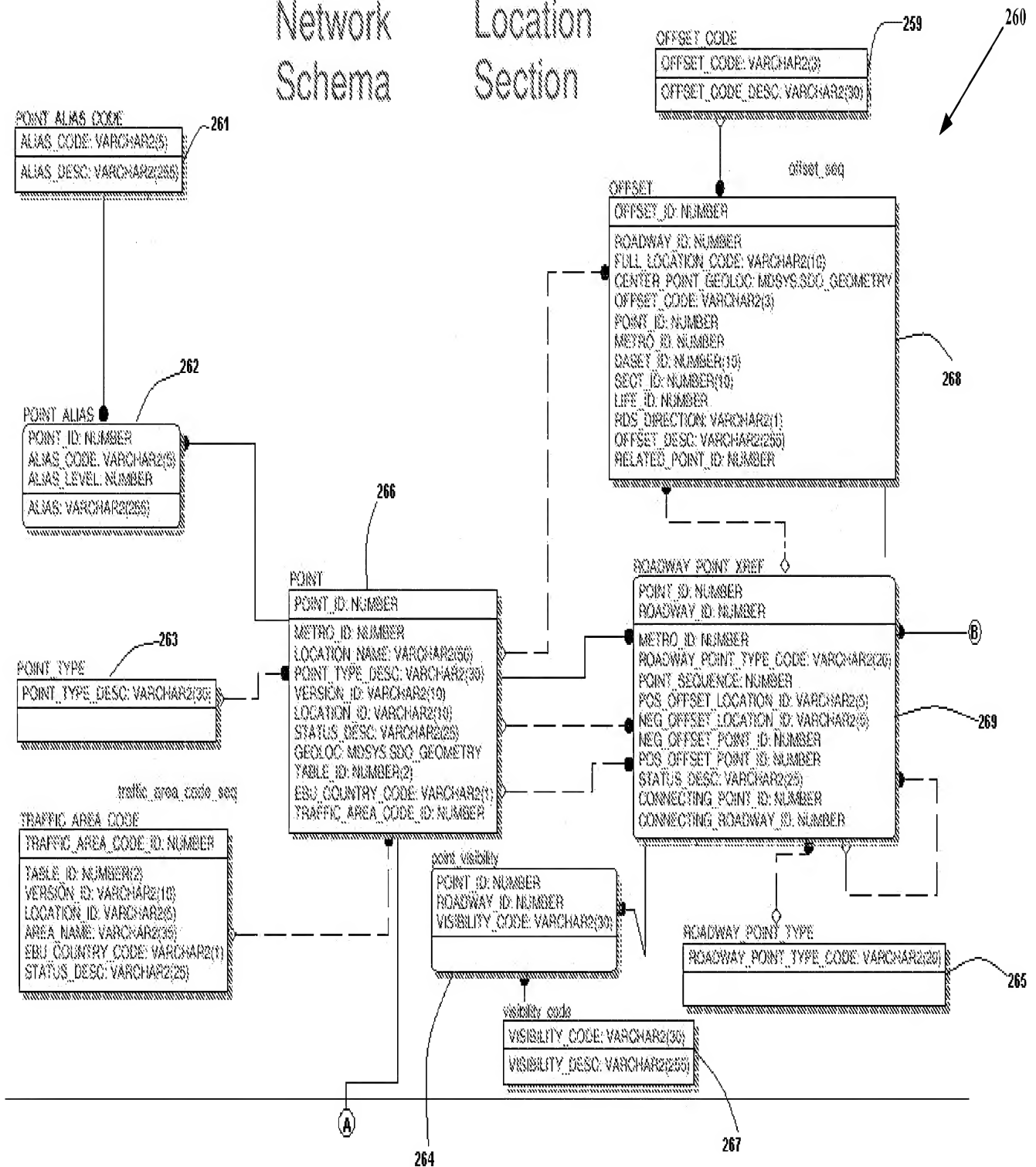


FIG. 12

Roadway
Section

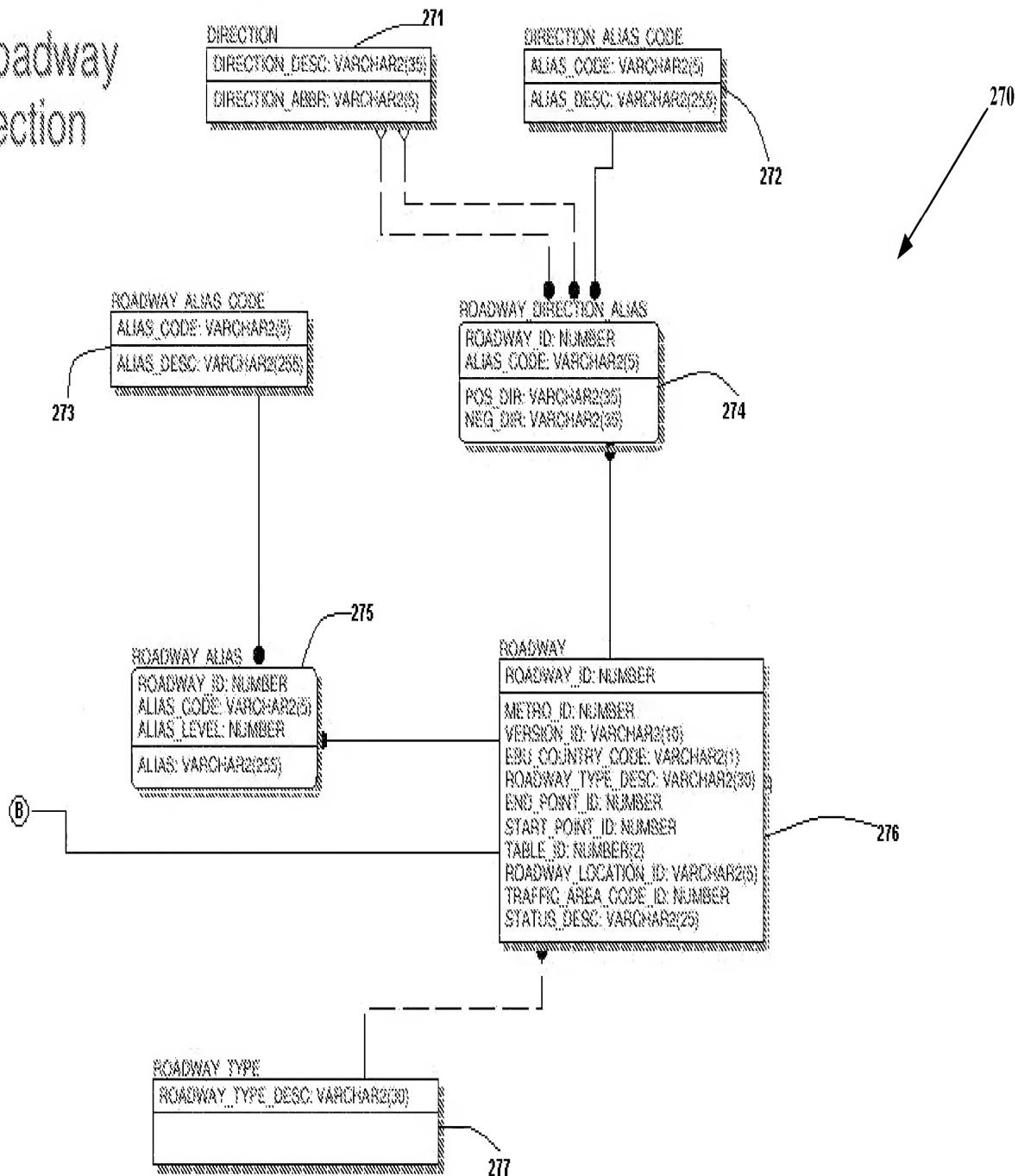


FIG. 13

Example of Basic Link Definitions

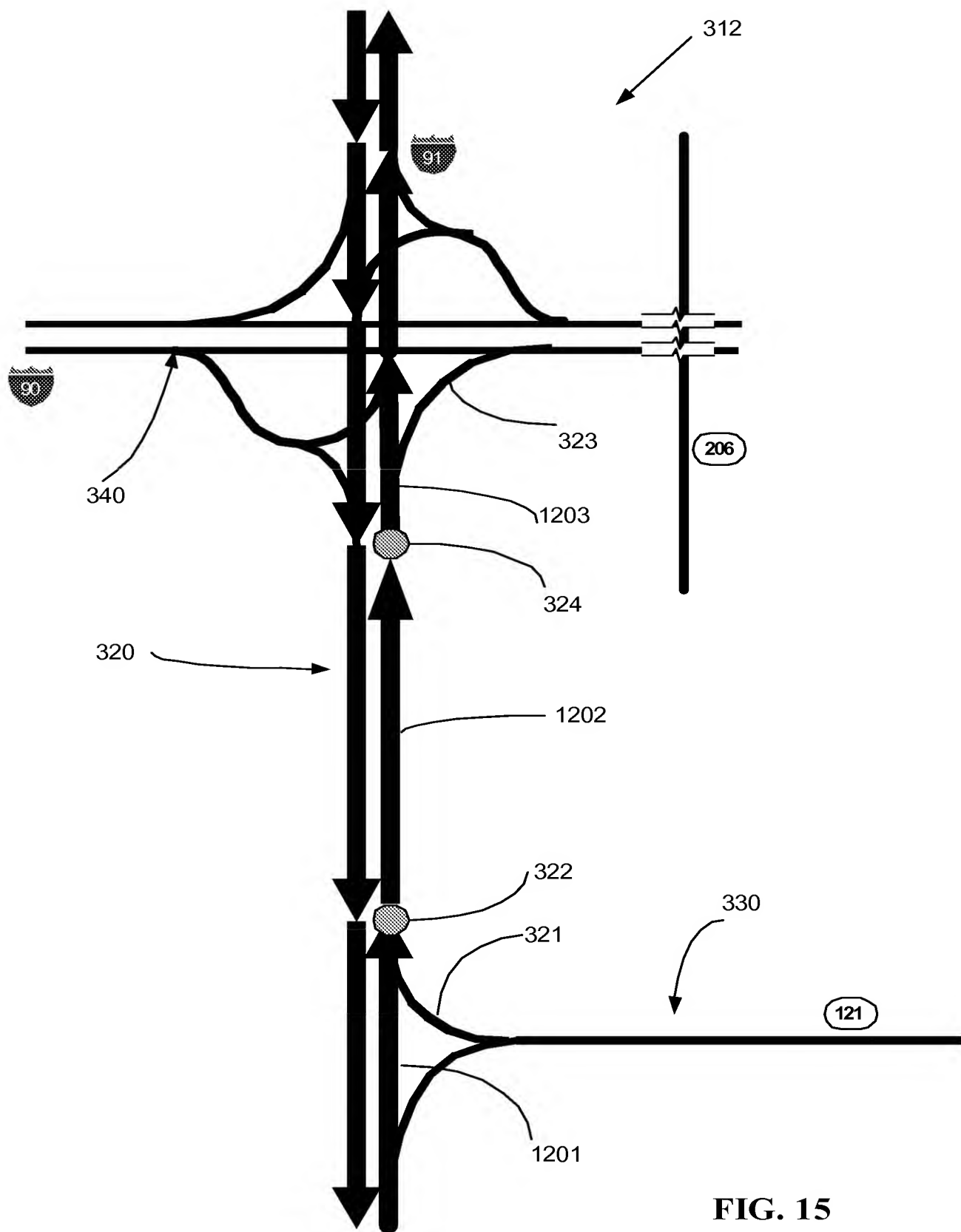
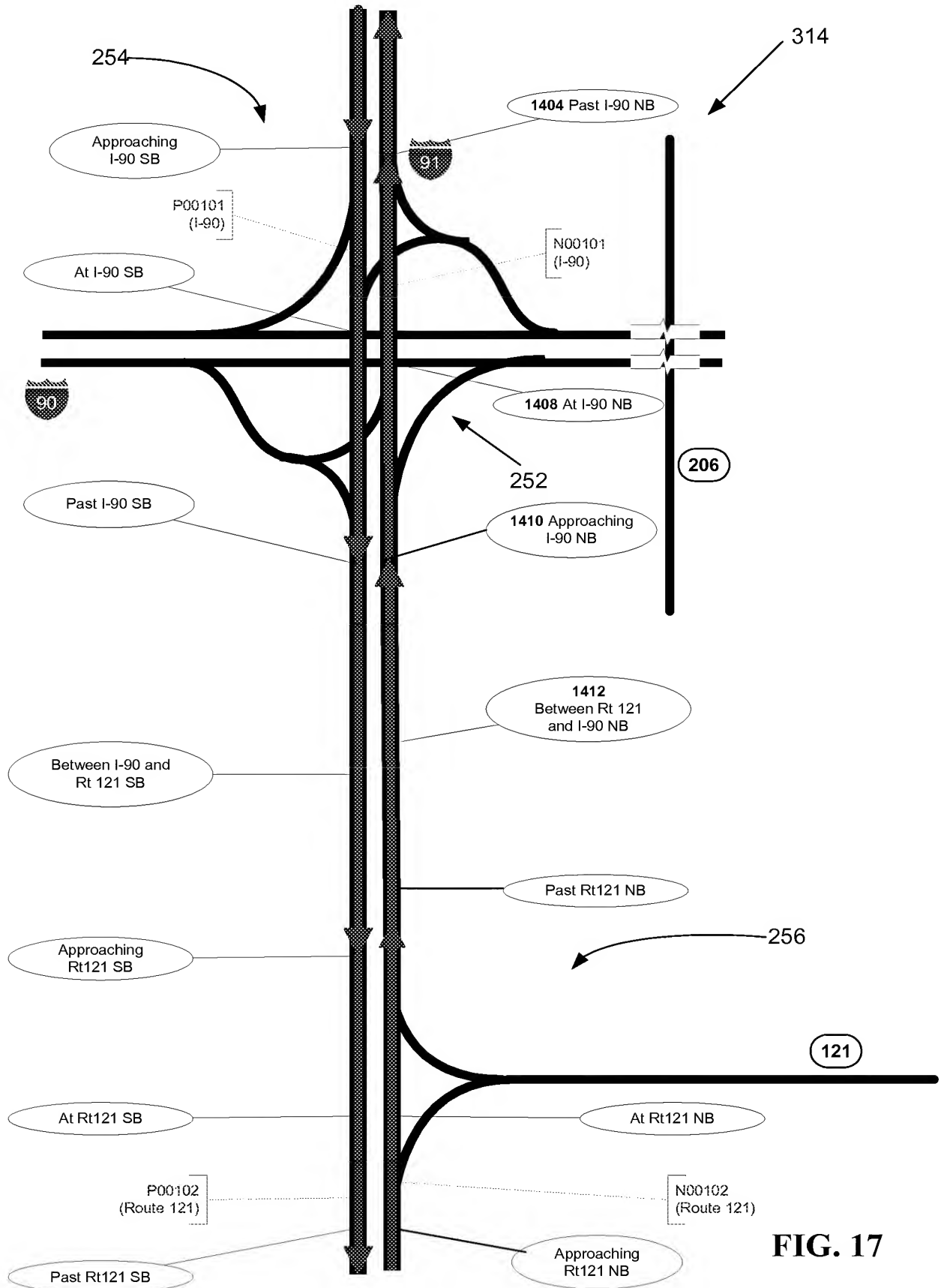
**FIG. 15**

FIG. 16

Example of Proximities for Traffic Link Definitions

**FIG. 17**

Example of Graphical Network Layer Mapping from the Traffic Network

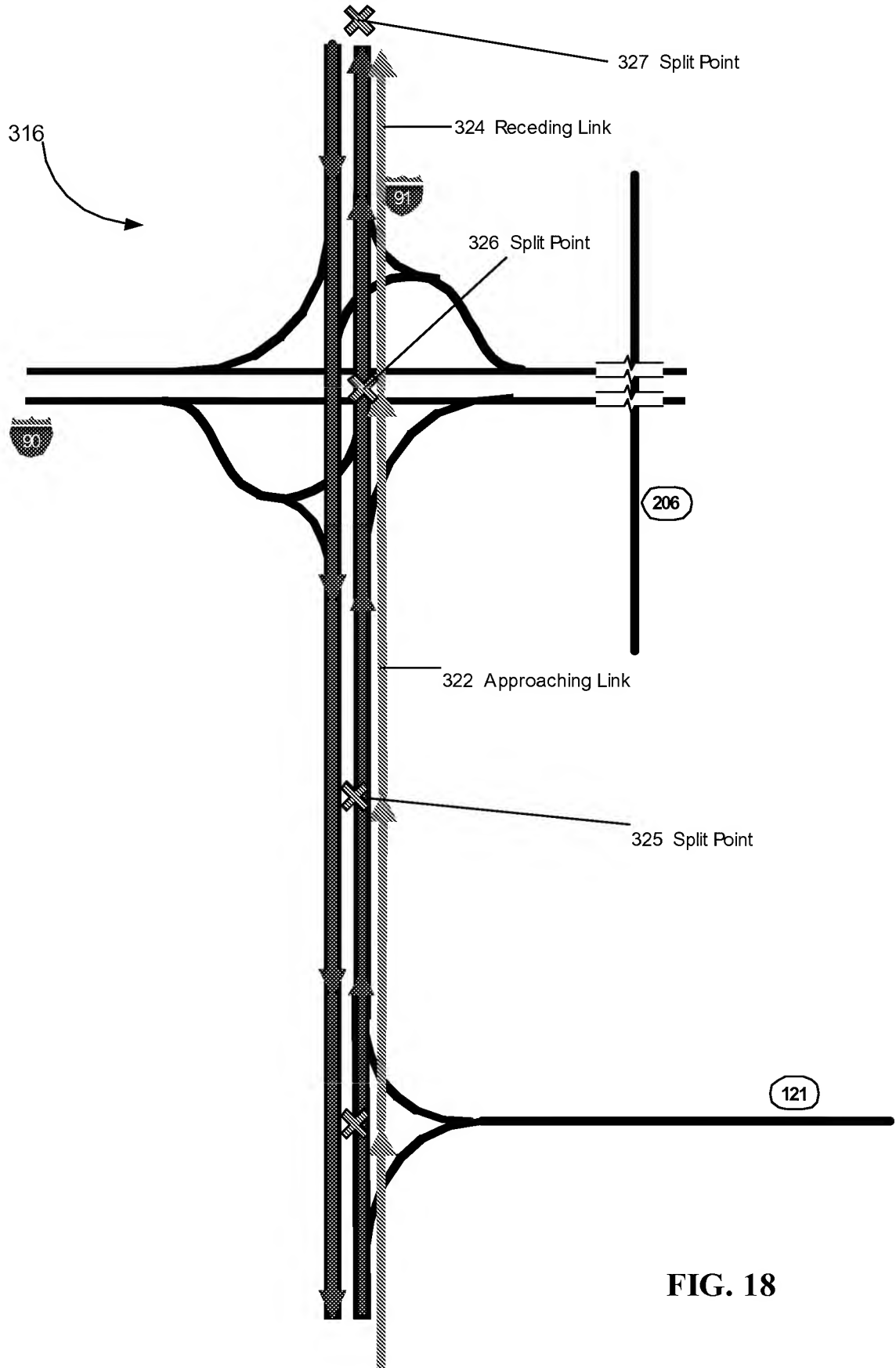


FIG. 18

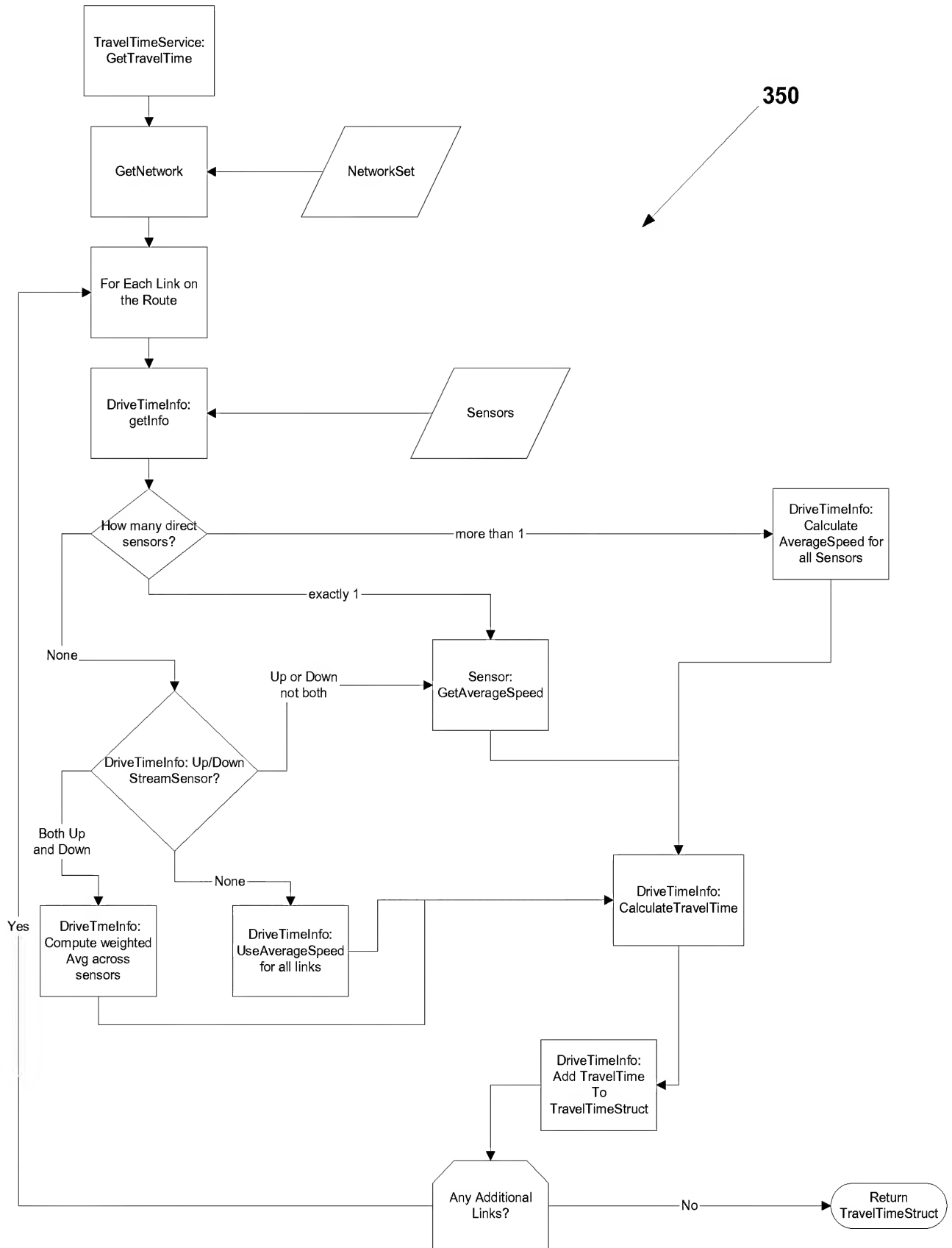


FIG. 19

Mobility Technologies

Select Metro Area: **Philadelphia** 221 Display Column Headers 222 Enable/Disable Keymapping Admin Traffic Change Password Log Out

ADD CONGESTION ADD INCIDENT ADD EVENT ADD NEWS

Critical Items: 0 Blinking Items: 0 Past Current Future

FILTER BY: Criticality **All** Defined Roadway **All** Best Type **Local**

Expired Items

Defined Roadways

Ben Franklin Brg - EB MANAGE ROADWAY

11-17 Oct 23	2	CONST	X	EB	Ben Franklin Brg	- construction two left lanes get by		
-----------------	---	-------	---	----	------------------	--------------------------------------	--	--

I-676 (N) - NB MANAGE ROADWAY

22:00 Sep 11	2	CONST	X	NB	I-676 (N)	Walt Whitman Brg (#2) off ramp - CLOSED through the end of the year for construction - DETOUR POSTED.		
-----------------	---	-------	---	----	-----------	---	--	--

I-95 - NB MANAGE ROADWAY

13-01 Oct 23	2	CONST	X	NB	I-95	approaching Bridge St - "rowing" maintenance crew blocking two left lanes		
-----------------	---	-------	---	----	------	---	--	--

I-95 - NB MANAGE ROADWAY

13-01 Oct 23	2		X	NB	I-95	jammed approaching Betsy Ross Brg to approaching Bridge St		
-----------------	---	--	---	----	------	--	--	--

RT-55 - SB MANAGE ROADWAY

11-07 Oct 23	2	CONST	X	SB	RT-55	RT-47 (#56) off ramp - scheduled construction - RAMP CLOSED until 3:30PM for pavement repairs. Detour posted.		
-----------------	---	-------	---	----	-------	---	--	--

Schuylkill Exwy - WB MANAGE ROADWAY

10-44 Oct 23	2		X	WB	Schuylkill Exwy	slow approaching RT 202		
-----------------	---	--	---	----	-----------------	-------------------------	--	--

Undefined Roadways

CAMDEN

13-00 Jul 29	2	CONST	X			Ramp from RT 130 to the Walt Whitman Bridge - construction one lane gets by - due to ongoing ramp reconstruction		
-----------------	---	-------	---	--	--	--	--	--

CHADDS FORD TWP

10-29 Aug 9	2	CONST	X			RT 180 CLOSED between RT 1 and Bullock Rd - until November 5th for bridge repair. - Detour posted.		
----------------	---	-------	---	--	--	--	--	--

EASTTOWN TWP

230

FIG. 20

EDIT CONGESTION

Active Stem Time: 22 Oct 2002 11:48
End Time: 22 Oct 2002 12:10
Criticality: 2
Verified: ☒

Summary

Intersection: 228
Address: 227
Roadway: 209 Hwy
All Roadways: ☐
Dir: Northbound 229
Direction Type: U/L 236

Whole Roadway: ☐
From Proximity: N
From Point: PA Type
From Between Point: 223
To Proximity: N
To Point: PA Type
To Between Point: 224

☒ Enable Travel Times
☒ Digital ☐ Estimated
☐ Estimated

Digital Travel Time: N/A minutes
Digital Delay Time: N/A minutes
Digital Average Speed: N/A MPH
☐ Enable Slow Sensor

Linked to: Roadway/Municipality: ☐ Incident: ☐

TYPE
currently jammed

CAUSED BY
Incident Type: Select Cause

COMMENTS
Comments:
Detector:
Alternate Route: 232
Producer Comments:

☐ TIME

Verified ☒

FIG. 21

EDIT ACCIDENT

As Seen From Date: 23 Oct 2002 11:07 End Date: 23 Oct 2002 12:07 Fatality: ☐ Verified: ☐

Roadway

Intersection: All Roadways: ☐ Dir: Direction Type:

Address: Whole Roadway: ☐ From Proximity: From Point: From Between Point:

To Proximity: To Point: To Between Point:

Linked To Roadway/ Municipality: ☐ Incident: ☐

LANES

Blocked: Select Lanes Blocked: Road closed: ☐

Available: Select Lanes Clear Description:

VEHICLES

	#	MODIFIER
Car	<input type="text"/>	<input type="text"/>
Truck	<input type="text"/>	<input type="text"/>
Motorcycle	<input type="text"/>	<input type="text"/>
Tractor Trailer	<input type="text"/>	<input type="text"/>
Other	<input type="text"/>	<input type="text"/>

DETAILS

Accident scene	Fatality	Fire Activity
Miscellaneous	Injury	Police activity
Property damage	Tow truck	Other

REMARKS

Comments:

Details:

Alternate Route:

Producer Comments:

PRINT

Verified: ☐

FIG. 22

EDIT SCHEDULED CONSTRUCTION

Active Item Time	End Time	Criticality	Verified
23.Oct.2002 12:02	23.Oct.2002 12:02	12	<input checked="" type="checkbox"/>

Intersection: Proximity:

Address: and City: State: Municipality:

227 →

Search Results: Click to Select Intersection
DELAWARE, HANFORD TWP, SEAGLE RD, WEST CHESTER PIKE

Linked to: Roadway/Municipality: Incident:

Type: Construction Details: Cancelled:

☒ Lanes

Blocked: Lanes: Road Closed:

Available: only shoulder gets by:

☒ COMMENTS

Comments:

Notes:

Additional Route:

Previous Comments:

☒ TIME

226 →

232 →

Verified: ☒

FIG. 23

EDIT MASS TRANSIT

Active Start Time	End Time	Criticality	Verified
23 Oct 2002 12:05	23 Oct 2002 12:35	12	<input checked="" type="checkbox"/>

Locality	Municipality	Municipality Alias
PHILADELPHIA	PHILADELPHIA	Center City

Linked to	Roadway/Municipality	Incident
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Service	Line	Type
SEPTA	15	Delays

Direction	Details
CB	disabled train

PLANS

EDITS

Comments

Details

Alternate Route

Producer Comments

Verified

226

227

232

FIG. 24

134 Congestion - Manage Incident Editor

File Edit View Favorites View Help

Back Forward Stop Search Favorites History Print View Settings

Address: <http://localhost:8080/portal/Controller>

ADD CONGESTION

Active From Time	End Time	Criticality	Verified
28-Dec-2007 15:00	28-Dec-2007 16:30	1	<input checked="" type="checkbox"/>

Roadway

Information: Roadway: RT-202 ☐ All Roadways ☐ Dir: Northbound Direction Type: UN

Address: ☐ Whole Roadway ☐ From Facility: 81 From Point: RT-30 From Between Point:

☐ To Facility: ☒ 81 To Point: Chesterbrook Blvd To Between Point:

☒ Enable Travel Times ☒ Digital ☐ Estimated

Digital Travel Time: 10 minutes ☐ Enable Slow Sensor

Digital Delay Time: 2 minutes

Digital Average Speed: 24 MPH

Linked to: ☒ Roadway/Municipality: RT-202 Incident: Chesterbrook Blvd - accident

226

223

224

227

228

248

FIG. 25

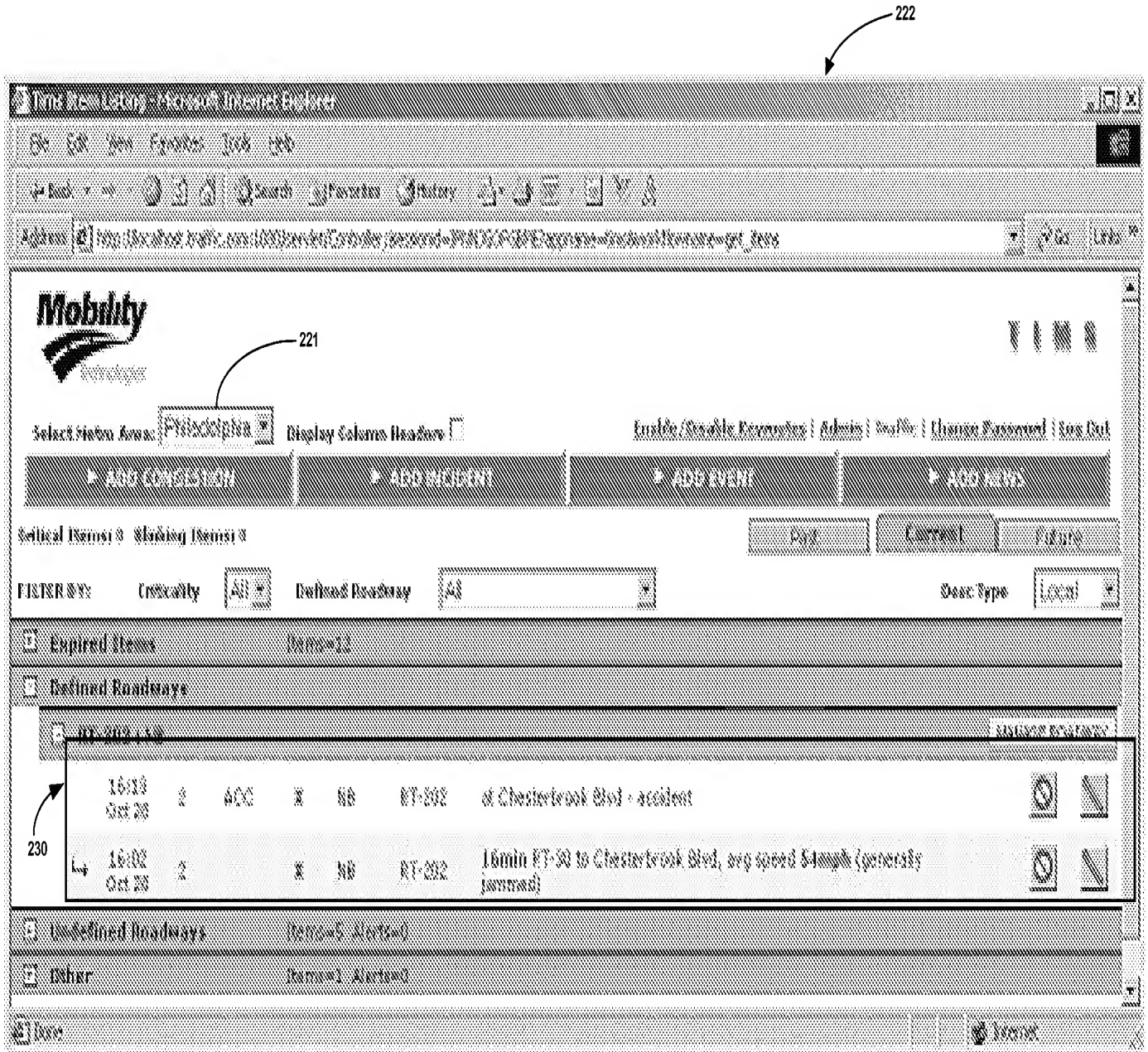
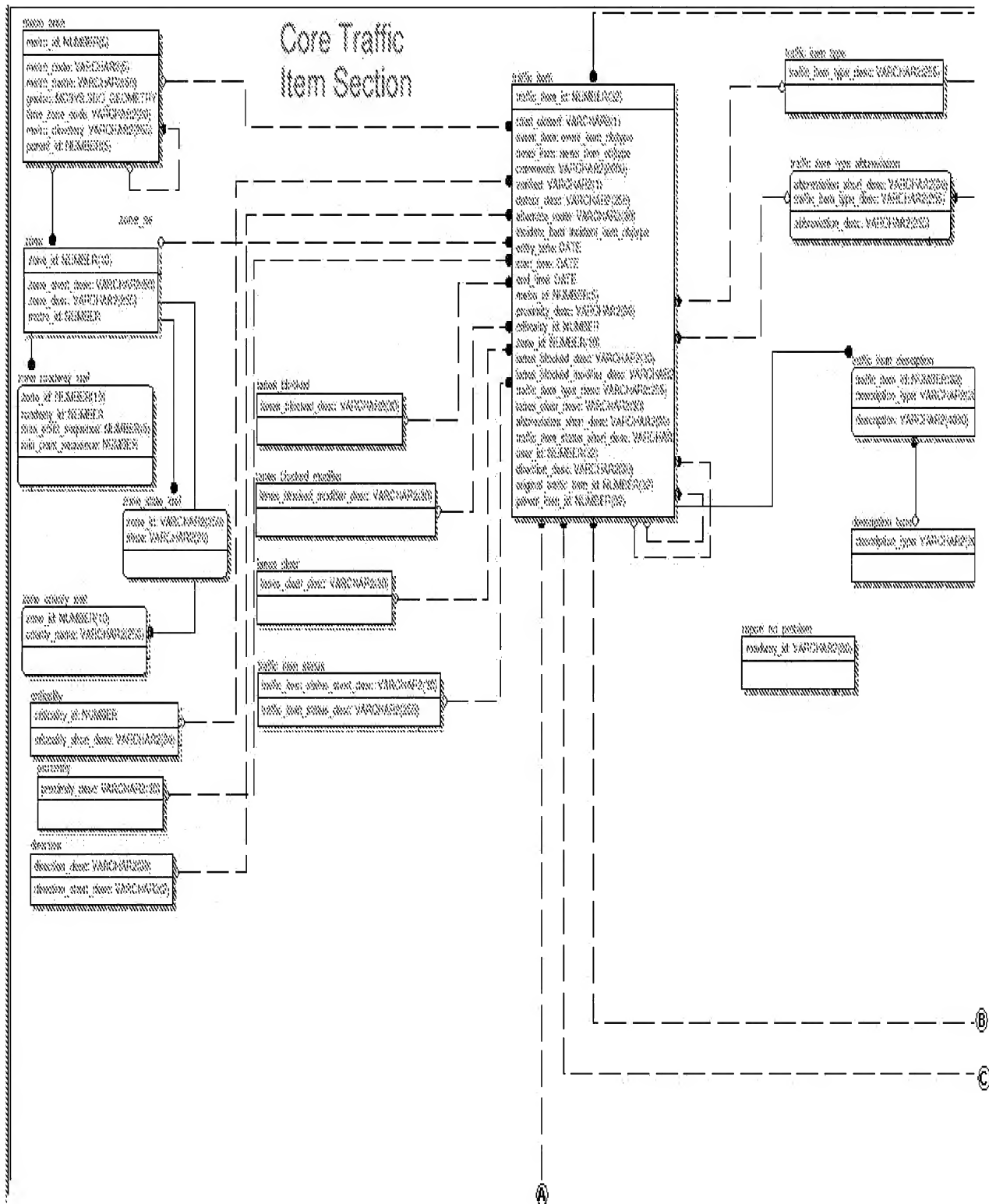


FIG. 26



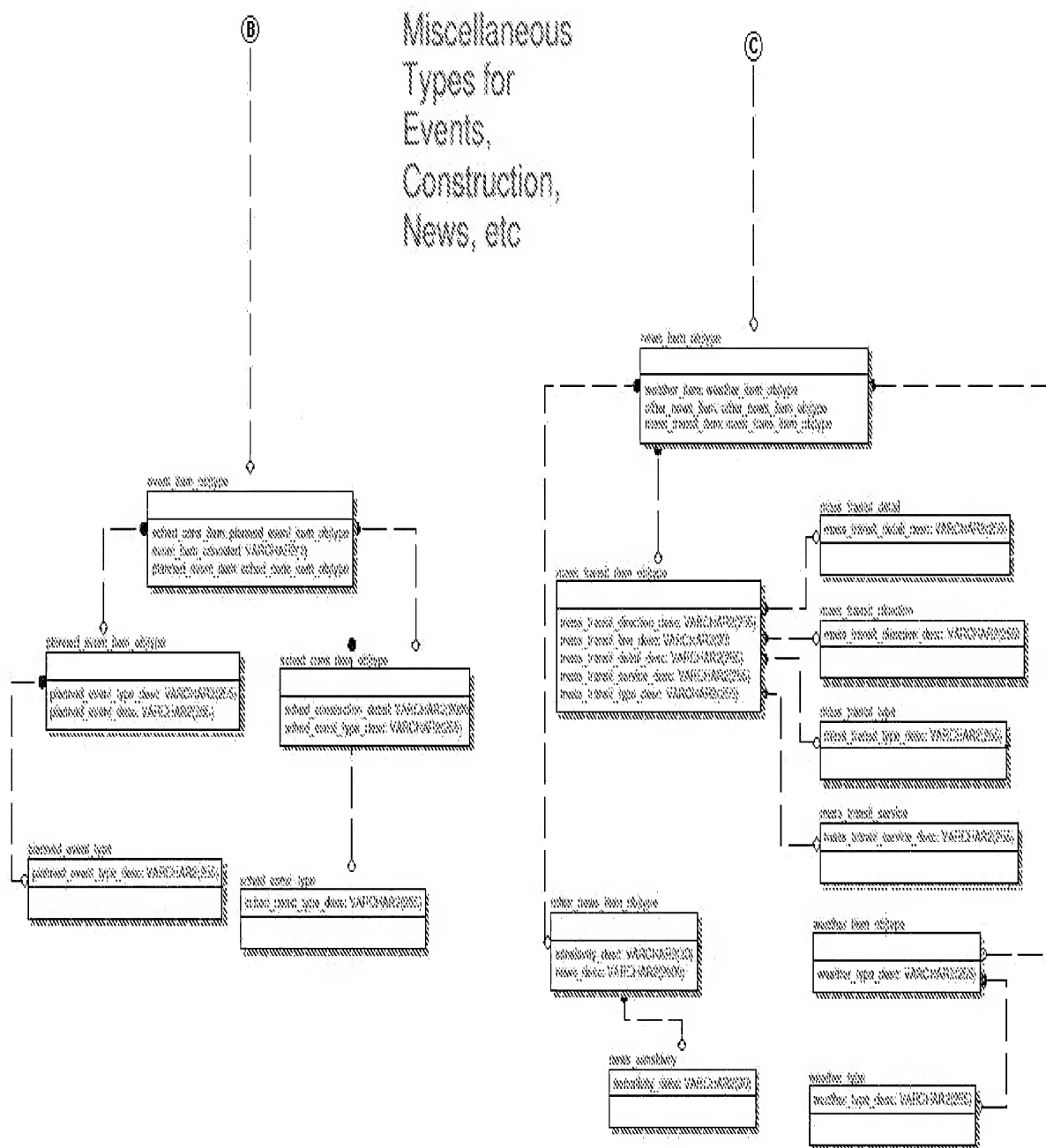


FIG. 29

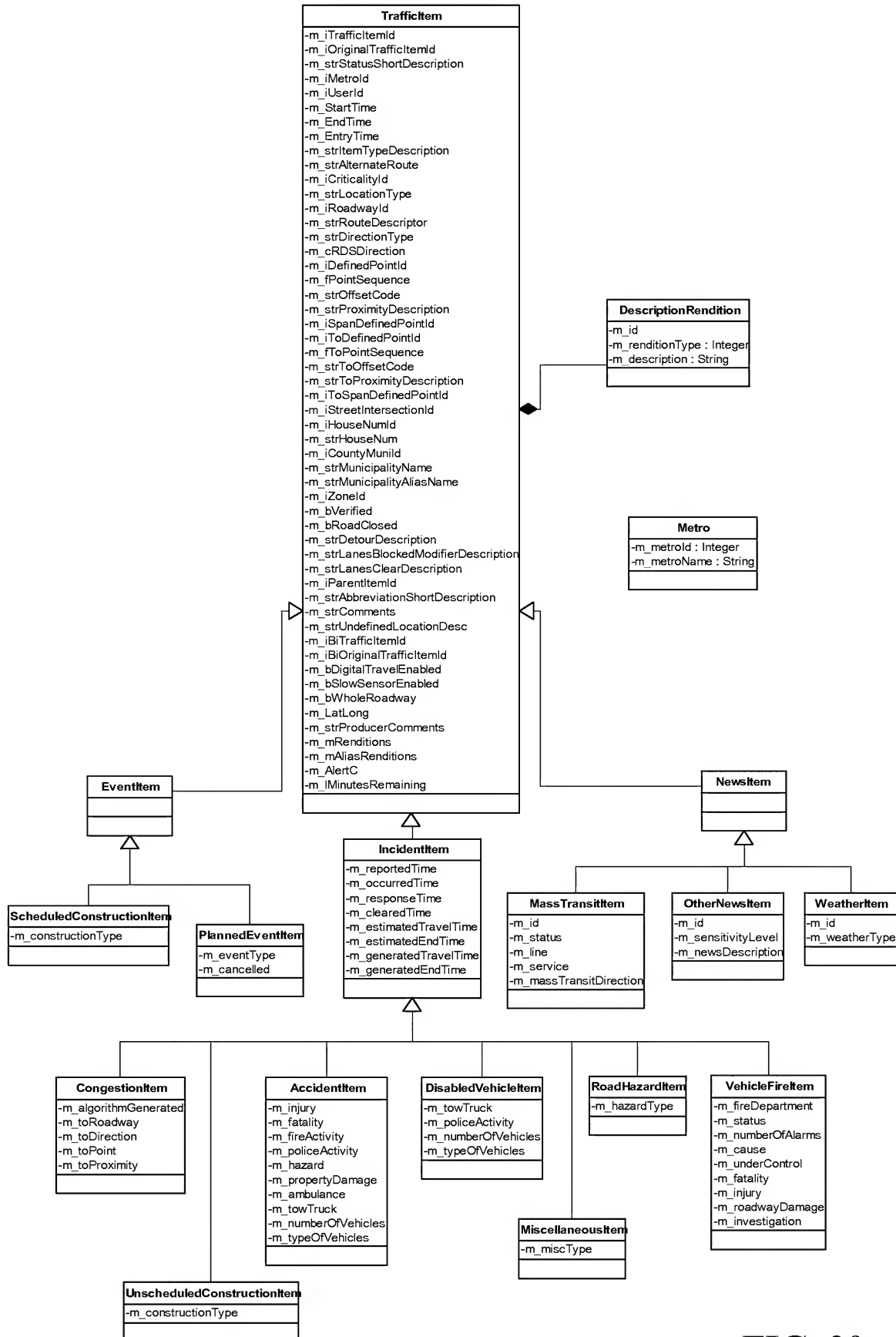


FIG. 30

```

<?xml version="1.0" encoding="UTF-8"?>
<definedroadways>
  <road>
    <road_name>RT-202</road_name>
    <road_id>98</road_id>
    <road_ebucountrycode>1</road_ebucountrycode>
    <road_tableid>3</road_tableid>
    <road_locid>00103</road_locid>
    <directions>
      <direction>
        <direction_type>+</direction_type>
        <direction_name>Northbound</direction_name>
      </direction>
      <direction>
        <direction_type>-</direction_type>
        <direction_name>Southbound</direction_name>
      </direction>
    </directions>
    <points>
      <point>
        <point_name>RT-100 Spur</point_name>
        <point_id>396</point_id>
        <point_locid>04466</point_locid>
        <point_sequence>2.0</point_sequence>
        <mids>
          <mid>
            <mid_type>+</mid_type>
            <mid_id>397</mid_id>
            <mid_locid>04467</mid_locid>
            <mid_name>Boot Rd</mid_name>
          </mid>
          <mid>
            <mid_type>-</mid_type>
            <mid_id>395</mid_id>
            <mid_locid>04465</mid_locid>
            <mid_name>RT-322</mid_name>
          </mid>
        </mids>
      </point>
    </points>
  </road>
</definedroadways>

```

FIG. 31

Tables Relating XML Nodes and Corresponding Database Tables and Database Columns**ROADWAY NODES**

XML Node	Database Table	Database Column
road_name 1	ROADWAY_ALIAS 275	ALIAS 275
road_id 1	ROADWAY 276	ROADWAY_ID 276

DIRECTION NODES

XML Node	Database Table	Database Column
direction_name 2	ROADWAY_DIRECTION_ALIAS 274	POS_DIR 274 NEG_DIR 274

POINT NODES

XML Node	Database Table	Database Column
point_name 3	POINT_ALIAS 262	ALIAS 262
point_id 3	POINT 266	POINT_ID 266
point_sequence 3	ROADWAY_POINT_XREF 269	POINT_SEQUENCE 269

MID NODES

XML Node	Database Table	Database Column
mid_type 4	OFFSET 268	RDS_DIRECTION 268
mid_id 4	OFFSET 268	RELATED_POINT_ID 268
mid_name 4	POINT_ALIAS 262	ALIAS 262

FIG. 32

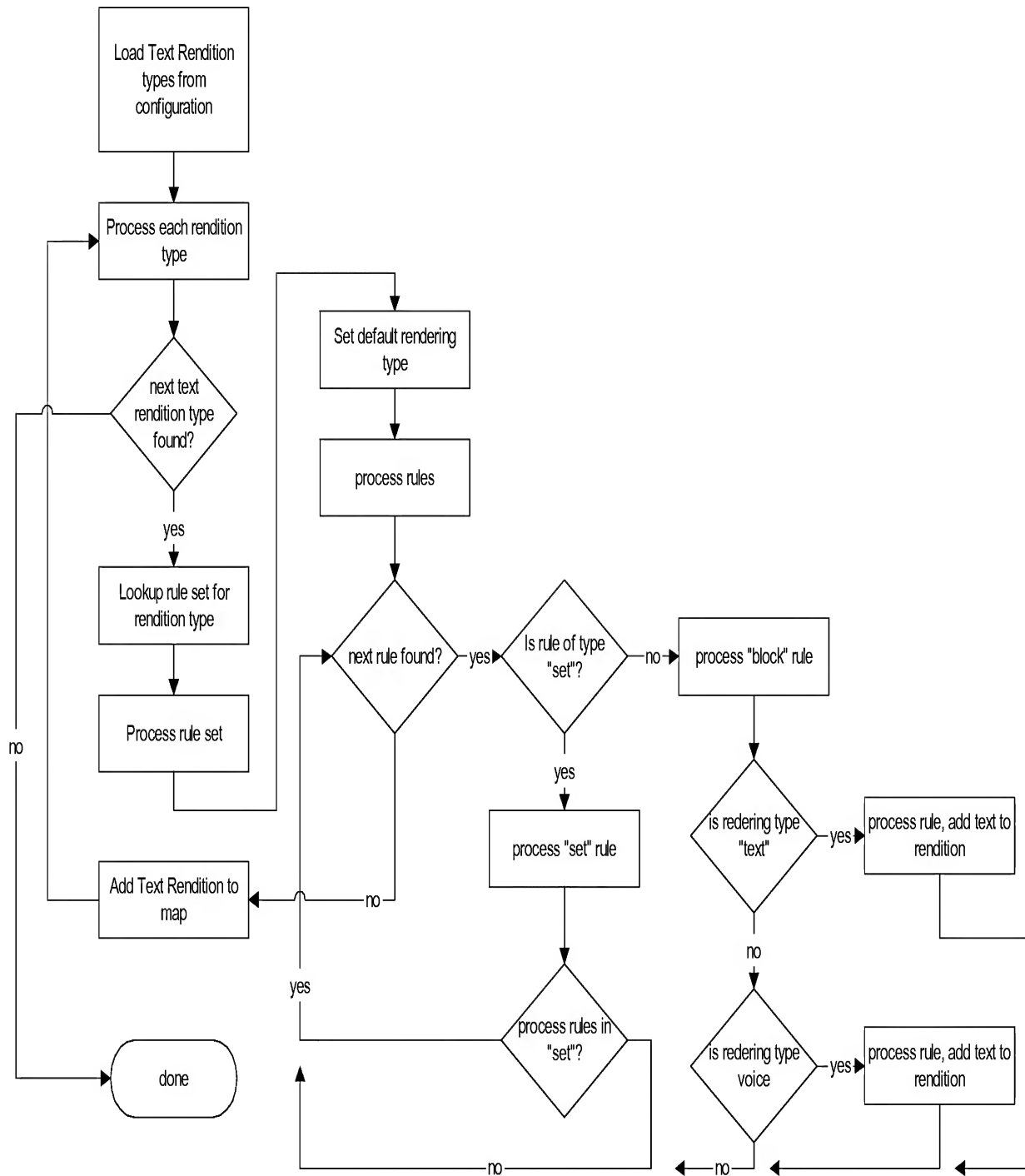
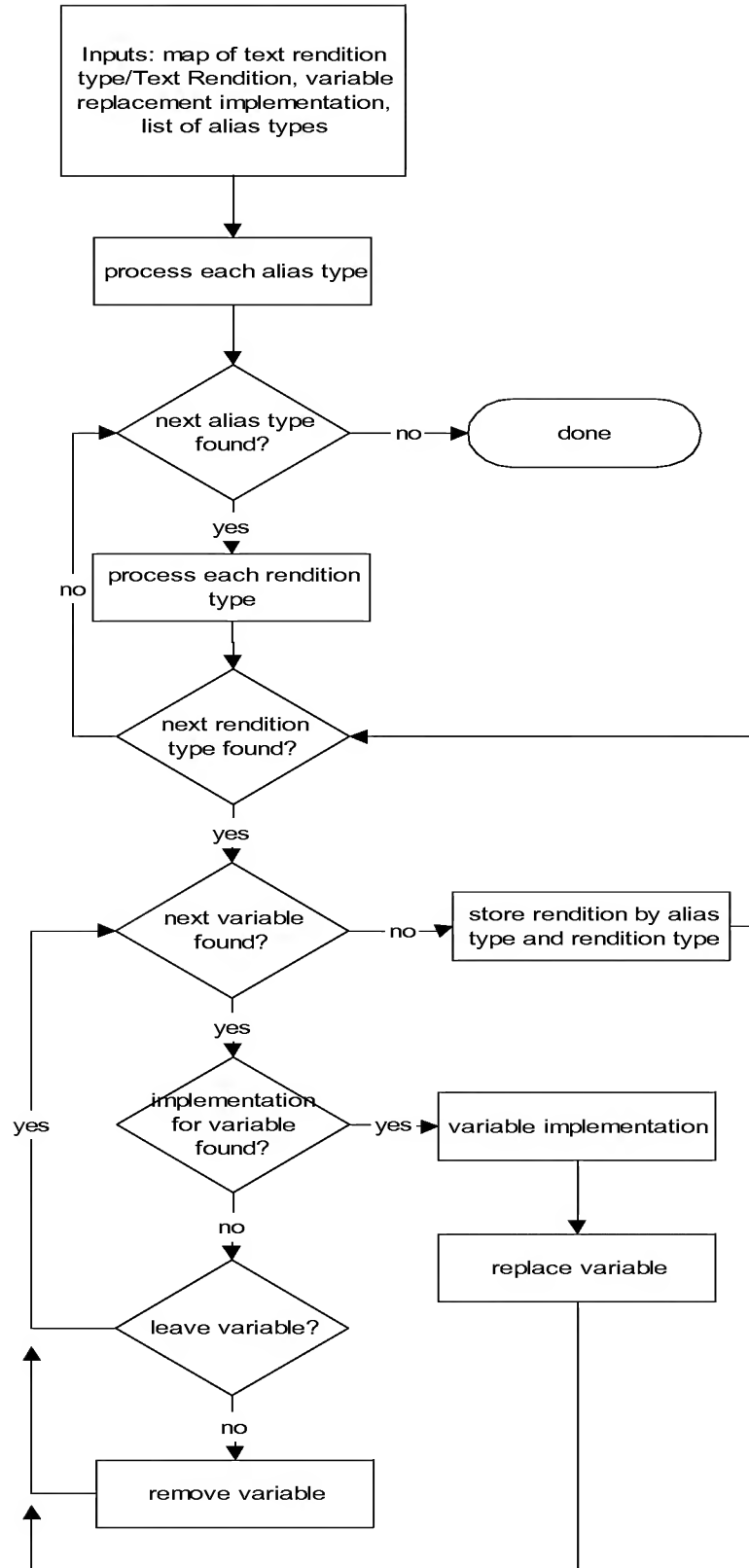


FIG. 33

**FIG. 34**

```

<TextRenditions>

  <TextRendition name="locname" aliastype="LOCAL" type="text">
    <TextBlockSetGroup key="locname" />
  </TextRendition>

  <TextBlockGroup name="locname">
    <TextBlockSetConditionalEquals key="LOCATION_TYPE" value="defined">
      <TextBlockConstant constant="$[ROAD_NAME," type="text" />
      <TextBlockMapValue key="ROADWAY_ID" type="text" />
      <TextBlockGetRoadName roadidkey="ROADWAY_ID" metroidkey="METRO_ID" type="voice"/>
      <TextBlockConstant constant="]" type="text" />
    </TextBlockSetConditionalEquals>
    <TextBlockSetConditionalEquals key="LOCATION_TYPE" value="undefined">
      <TextBlockSetGroup key="municipality_location" />
    </TextBlockSetConditionalEquals>
    <TextBlockSetConditionalEquals key="LOCATION_TYPE" value="municipality">
      <TextBlockSetGroup key="municipality_location" />
    </TextBlockSetConditionalEquals>
    <TextBlockSetConditionalEquals key="LOCATION_TYPE" value="metro">
      <!-- No location for metro -->
    </TextBlockSetConditionalEquals>
  </TextBlockGroup>

  <TextBlockGroup name="municipality_location">
    <TextBlockSetConditionalNull key="MUNI_ALIAS">
      <TextBlockMapValue key="MUNI_NAME" />
    </TextBlockSetConditionalNull>
    <TextBlockSetConditionalNotNull key="MUNI_ALIAS">
      <TextBlockMapValue key="MUNI_ALIAS" />
    </TextBlockSetConditionalNotNull>
  </TextBlockGroup>

</TextRenditions>

```

FIG. 35

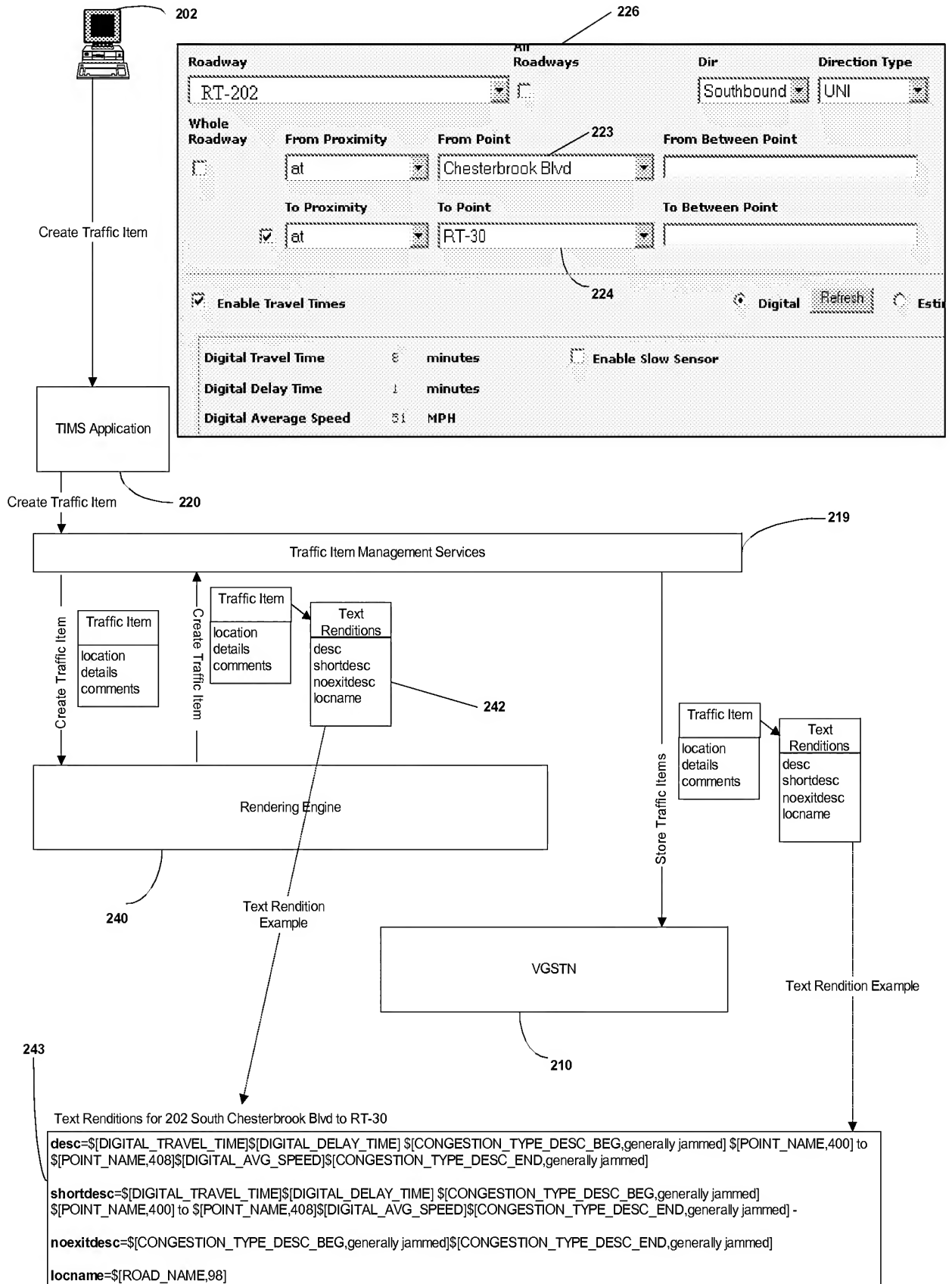


FIG. 36

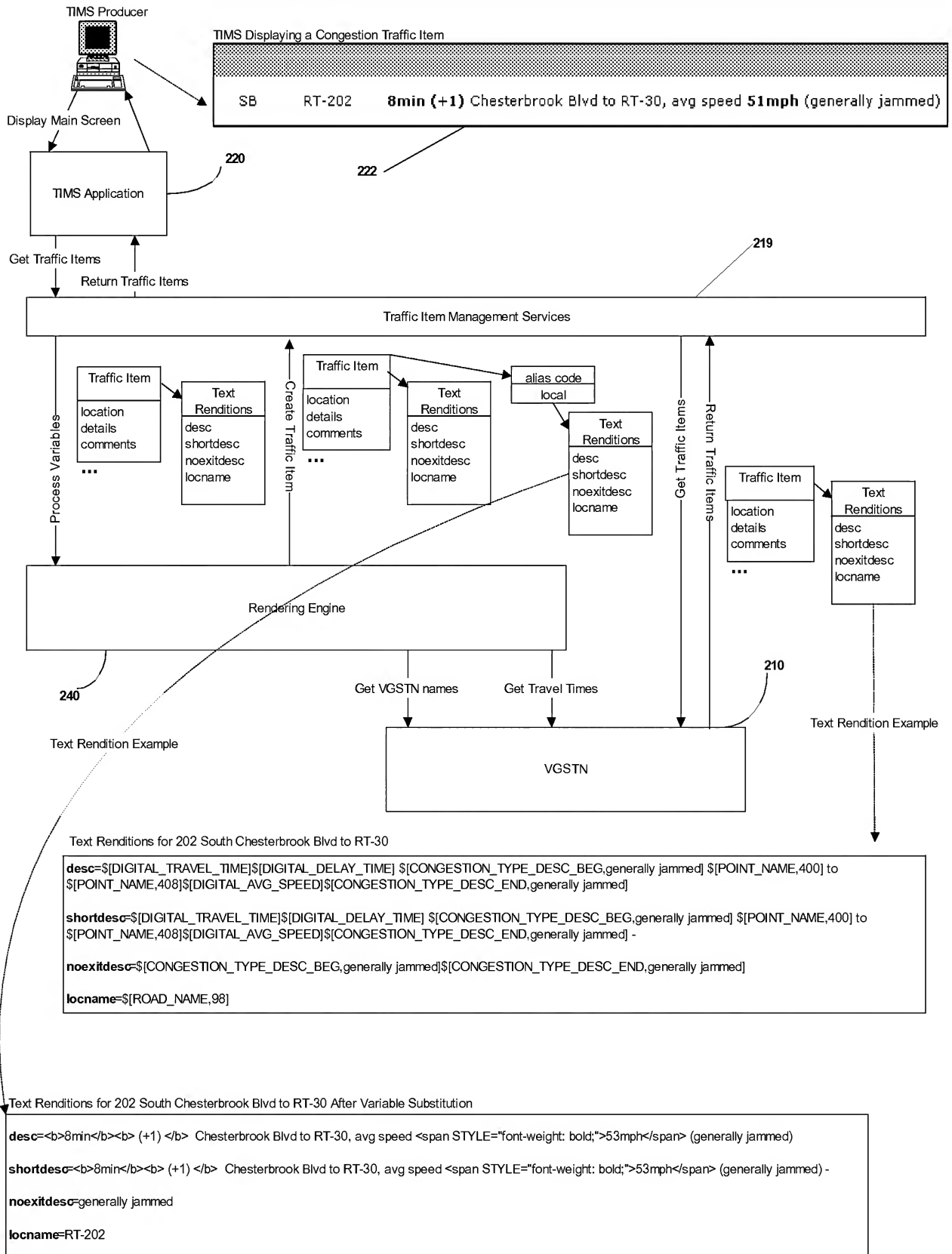


FIG. 37

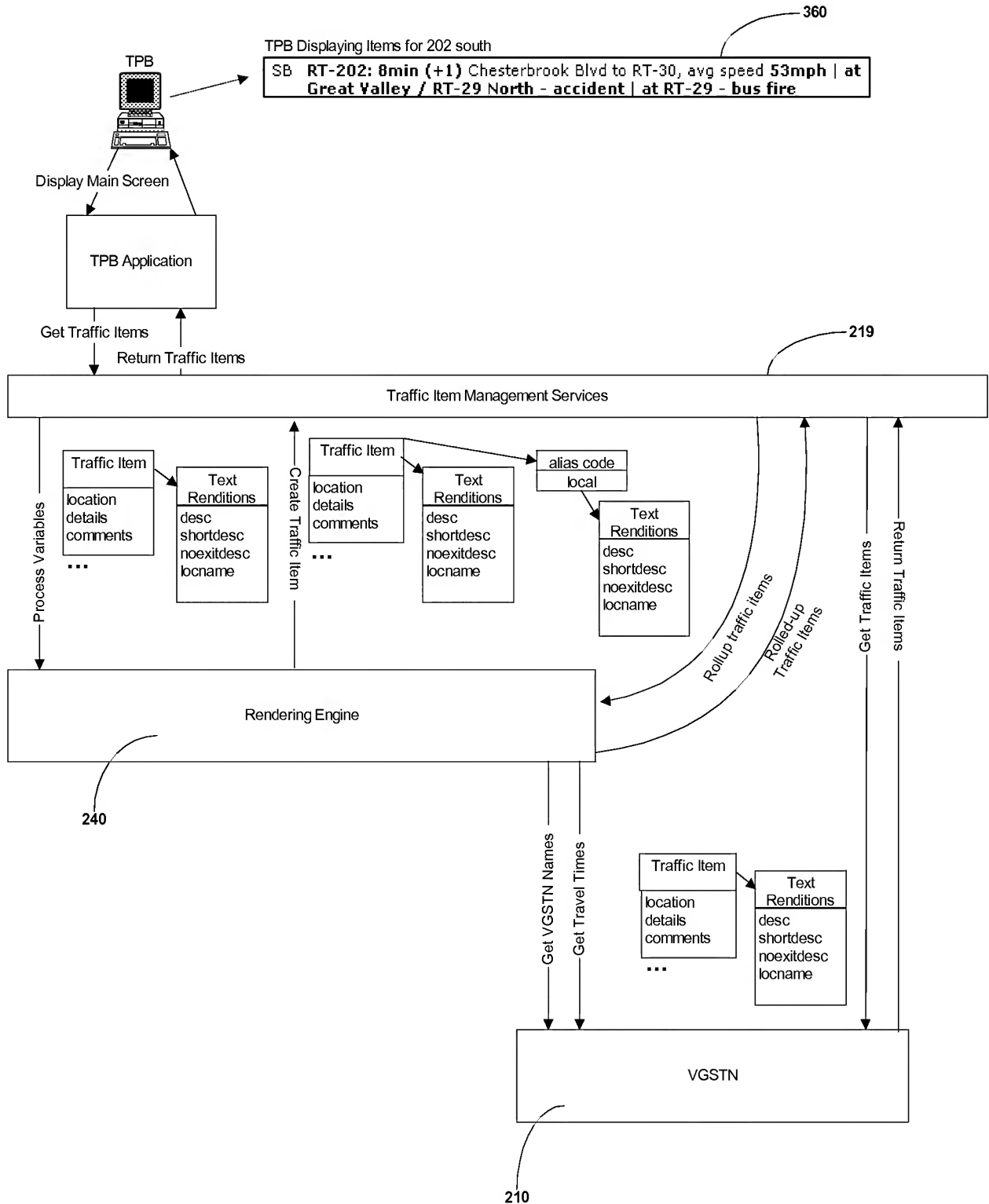


FIG. 38

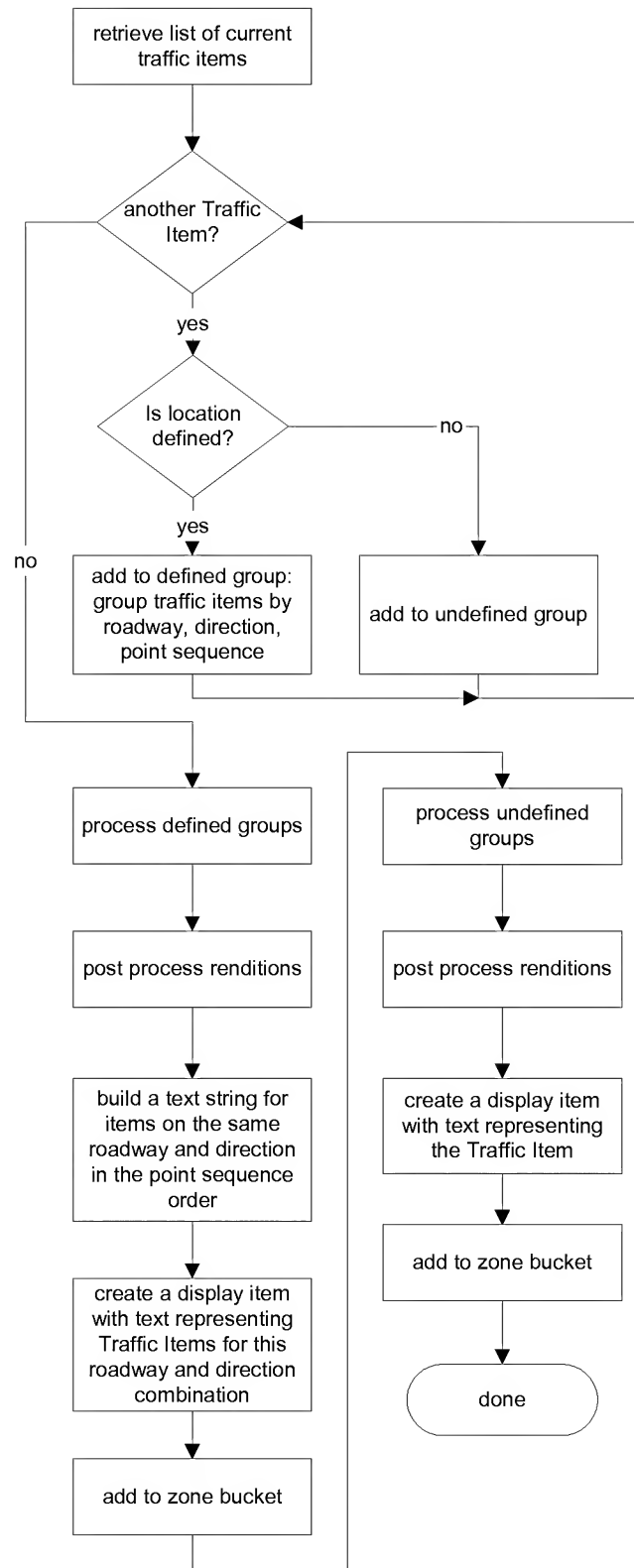


FIG. 39

View by Criticality ☒ Display Zones ☒ Short Description ☒

360

traffic pulse
broadcaster

TPB

230

Time	CT	Type	Dir	Description	Estimated arrival	Stop Refresh	21 secs
76/202/422							
<input type="checkbox"/>	13:24	2	KEYR	WB	I-76: from I-676 to I-476 : 14min (+1)		
<input type="checkbox"/>	13:24	2	KEYX	EB	I-76: from I-476 to I-676 : 14min (+1)		
<input type="checkbox"/>	13:15	2		WB	Schuylkill Exwy: slow approaching RT-202		
95/1/YXWY							
<input type="checkbox"/>	13:24	2	KEYR	NB	I-95: from I-676 to Woodhaven Rd. : 19min (+5)		
<input type="checkbox"/>	13:02	2		NB	I-95: jammed approaching Betsy Ross Brg to approaching Bridge St due to "roving" maintenance crew blocking two left lanes		
Pa Major							
<input type="checkbox"/>	13:24				I-476/Blue Route: No Reported Problems.		
Phila							
<input type="checkbox"/>	16:14	3	CONST		PHILADELPHIA: NB Cobbs Creek Pkwy between Ludlow & Market Sts - ongoing construction - right lane closed thru May 2003.		
Montgomery Co							
<input type="checkbox"/>	11:27	3	CONST		HATFIELD: MAIN ST CLOSED between TOWAMENCIN AVE and VINE ST - construction - until October 25th for road work. Detour posted.		
<input type="checkbox"/>	11:33	3	CONST		TOWAMENCIN/UP.GWYNEDD TWP: RT.363 (Valley Forge Rd) between RT.73 and RT.63 - scheduled construction - lane restrictions from 9AM to 3PM for milling and paving.		
<input type="checkbox"/>	16:46	3	CONST		UPPER DUBLIN TWP: RT.152 (LIMEKILN PIKE) CLOSED between FITZWATERTOWN RD and NORTH HILLS AVE - - until November 4th to build a pedestrian tunnel. Detour posted.		
<input type="checkbox"/>	06:53	3	CONST		UPPER MERION TWP: Warner Rd bridge over RT.202 - construction - CLOSED and DETOURED until 2003 to construct a new bridge		
Delaware Co							
<input type="checkbox"/>	15:40	3	CONST		CHADDS FORD TWP: RT.100 CLOSED between RT.1 and Bullock Rd - until November 5th for bridge repair. - Detour posted.		
Chester Co							
<input type="checkbox"/>	12:19	3	CONST		EASTTOWN/TREDYFFRIN TWP5: RT.36 between Berwyn Park Rd and Midland Ave - ongoing construction one lane gets by - in both directions for road reconstruction		
NJ Majors							
<input type="checkbox"/>	13:24				Walt Whitman Brg: No Reported Problems.		
<input type="checkbox"/>	12:10	2	CONST	EB	Ben Franklin Brg: - construction two left lanes get by		
<input type="checkbox"/>	11:08	2	CONST	SB	RT-55: RT-47 (#56) off ramp - scheduled construction - RAMP CLOSED until 3:30PM for pavement repairs. Detour posted.		
<input type="checkbox"/>	23:17	3	CONST	SB	I-676 (NJ): Walt Whitman Brg (#2) off ramp - CLOSED through the end of the year for construction - DETOUR POSTED.		
Camden County							
<input type="checkbox"/>	17:30	3	CONST		CAMDEN: Ramp from RT.130 to the Walt Whitman Bridge - construction one lane gets by - due to ongoing ramp reconstruction		
News							
<input type="checkbox"/>	13:16	2	FYI		: SEPTA R-2 Marcus Hook/Wilmington Line buzzing between 30th St and Marcus Hook due to Police Activity.		
<input type="checkbox"/>	13:05	3	FYI		: I-76 Westbound -- reduced to one lane at the Rt. 202 interchange until December for ramp construction.		
<input type="checkbox"/>	15:00	3	FYI		: I-95 NORTHBOUND CONSTRUCTION -- between Bridge St and Cottman Av - only three lanes available until late October		
Mass Transit							

FIG. 40

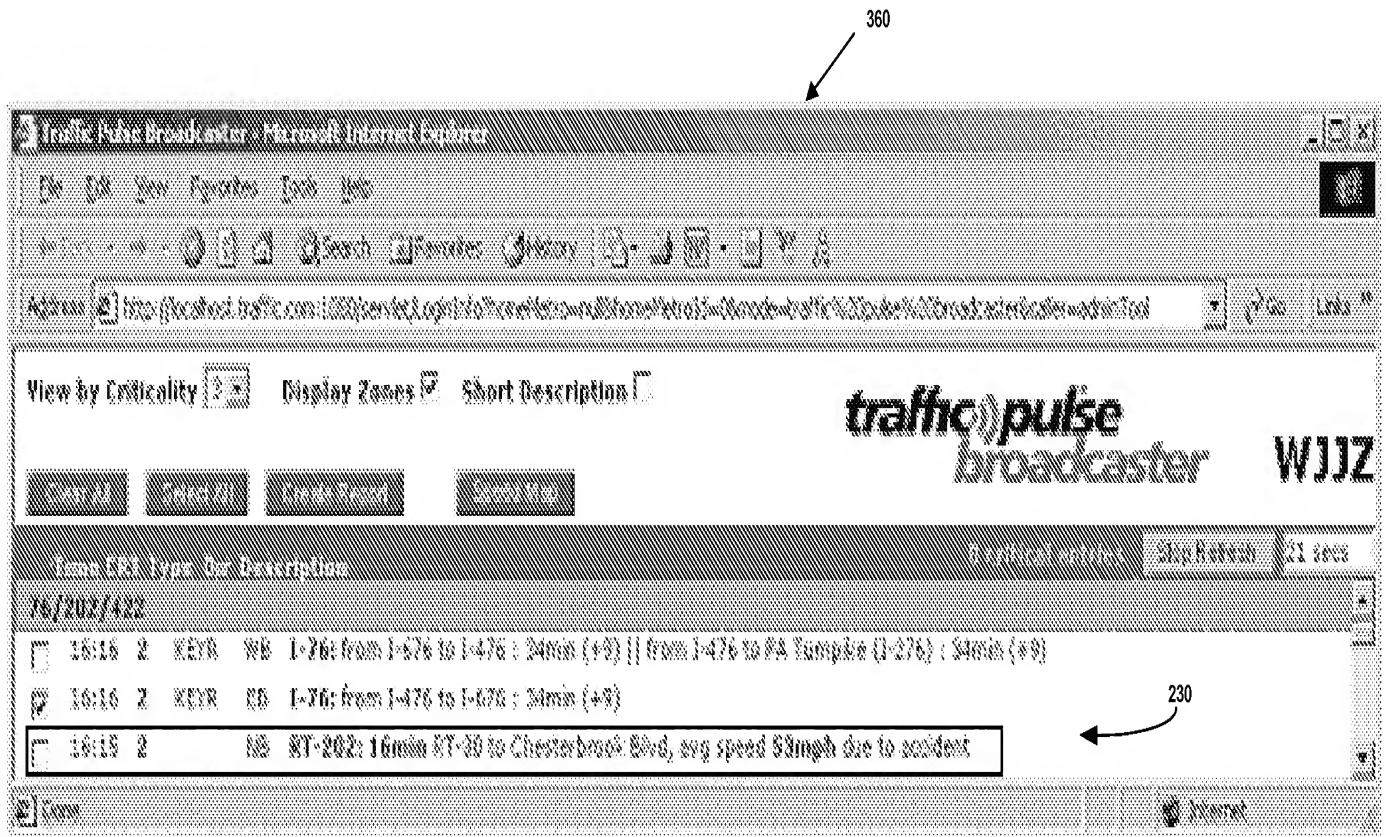


FIG. 41

«interface» RawTrafficItemInterface
+findItemsPresentActiveByMetroid(in metroid : Integer) : Collection +findItemsPresentActiveByMetroid(in metroid : Integer, in descriptionType : String) : Collection +findItemByIdAndDescType(in metroid : Integer, in trafficItemId : Integer) : Item +findItemByIdAndDescType(in metroid : Integer, in trafficItemId : Integer, in descriptionType : String) : Item +findItemsPresentDefinedRoadways(in metroid : Integer, in roadwayId : Integer, in pointId : Integer, in toPointId : Integer, in itemTypeDescription : String, in criticalityId : Integer, in descriptionType : String) : Collection +findConcreteItemsFromItems(in items : Collection) : Collection +findCongestionIncidentByIdAndDescType(in trafficItemId : Integer, in descriptionType : String) : CongestionIncident

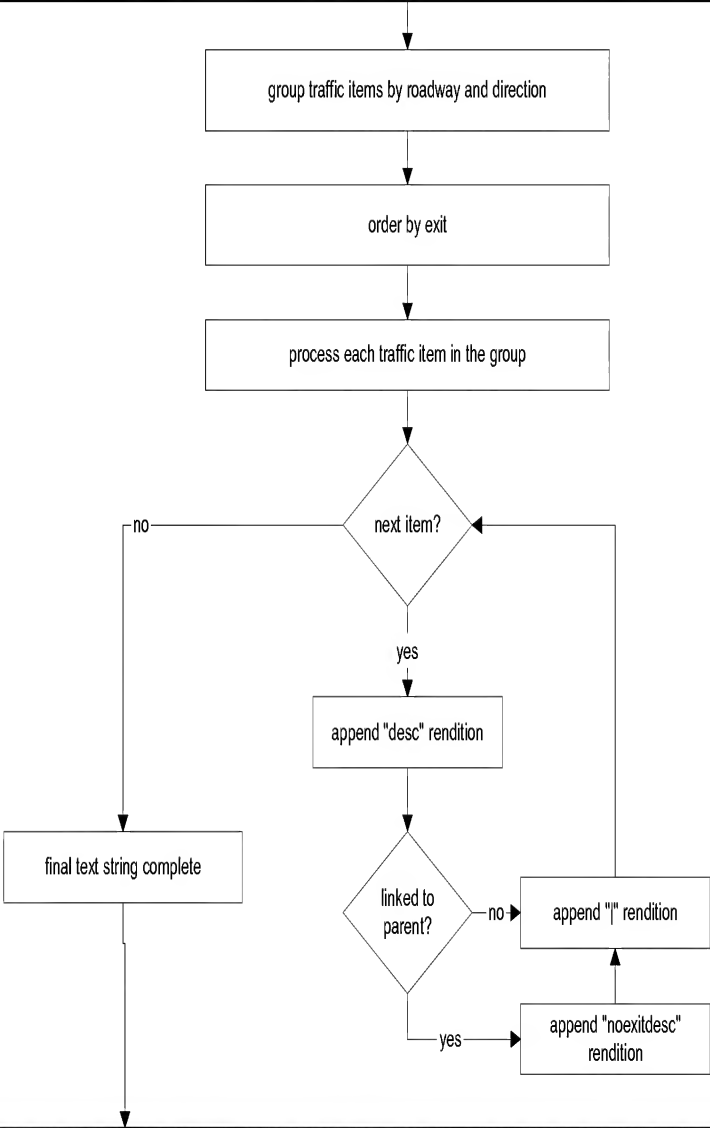
«interface» ConsumerTrafficItemInterface
+findItemsByMetroidAllDescs(in metroid : Integer, in impl : String, in aliasType : String) : Collection +findItemsByMetroidAllDescs(in metroid : Integer, in impl : String) : Collection +findItemsPresentActiveByMetroid(in metroid : Integer, in descriptionType : String, in impl : String, in aliasType : String) : Collection +findItemsPresentActiveByMetroid(in metroid : Integer, in descriptionType : String, in impl : String) : Collection +findItemByIdAndDescType(in trafficItemId : Integer, in descriptionType : String, in impl : String, in aliasType : String) : Item +findIncidentItemByIdAndDescType(in trafficItemId : Integer, in descriptionType : String, in impl : String, in aliasType : String) : IncidentItem +findCongestionItemsAll() : CongestionIncident +findCongestionIncidentByIdAndDescType() : CongestionIncident +findItemsPresentDefinedRoadways(in metroid : Integer, in roadwayId : Integer, in pointId : Integer, in toPointId : Integer, in itemTypeDescription : String, in criticalityId : Integer, in descriptionType : String, in impl : String, in aliasType : String) : Collection

«interface» AnnouncerItemRollupInterface
+getItems(in metroid : Integer, in impl : String) : Collection

«interface» AnnouncerZoneViewInterface
+findAnnouncerZoneViewByUserId(in userId : Integer, in roleId : Integer, in metroid : Integer) : Collection

FIG. 42

RT-202 : NB							MANAGE ROADWAY	
14:29 Nov 20	2	ACC	X	NB	RT-202	past RT-30 - accident		
14:30 Nov 20	2		X	NB	RT-202	slow approaching RT-30 to past RT-30		
14:32 Nov 20	2		X	NB	RT-202	2min RT-401 to approaching RT-29, avg speed 54mph (slow)		
14:34 Nov 20	2	DVEH	X	NB	RT-202	at Ramp to 76 East - disabled vehicle blocking left lane		
14:36 Nov 20	2		X	NB	RT-202	sluggish Swedesford Rd Exit to Ramp to 76 East		

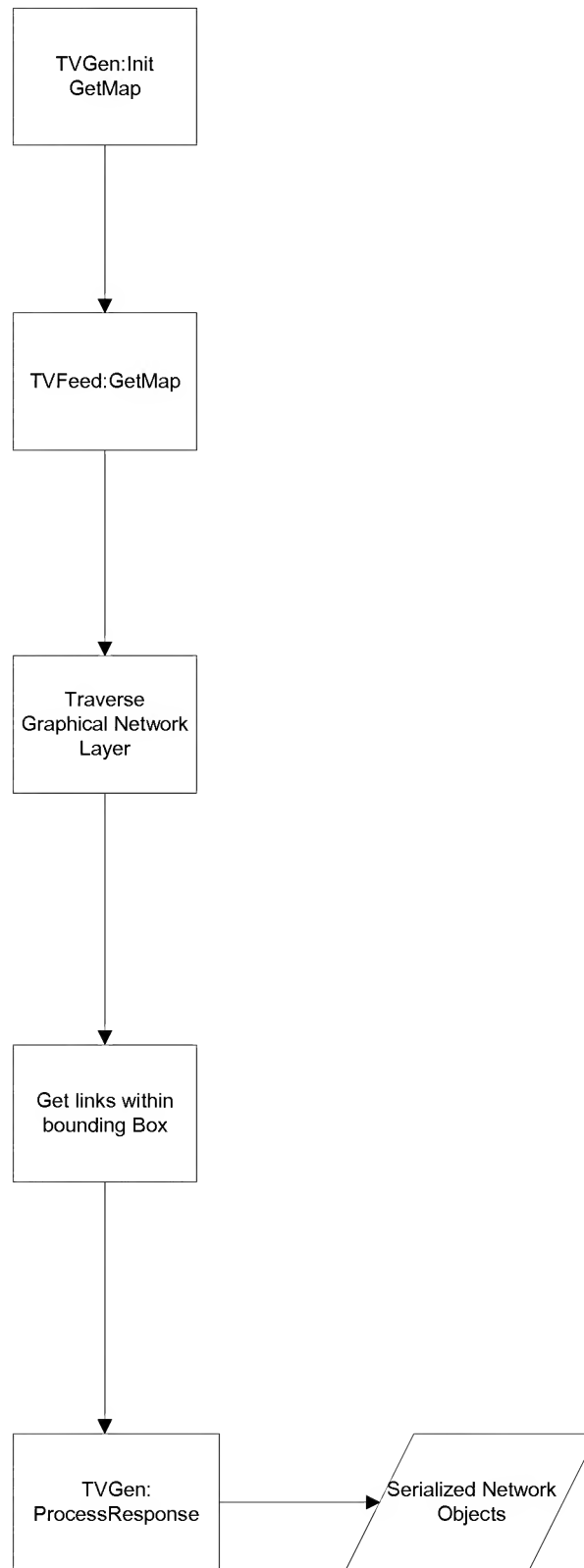


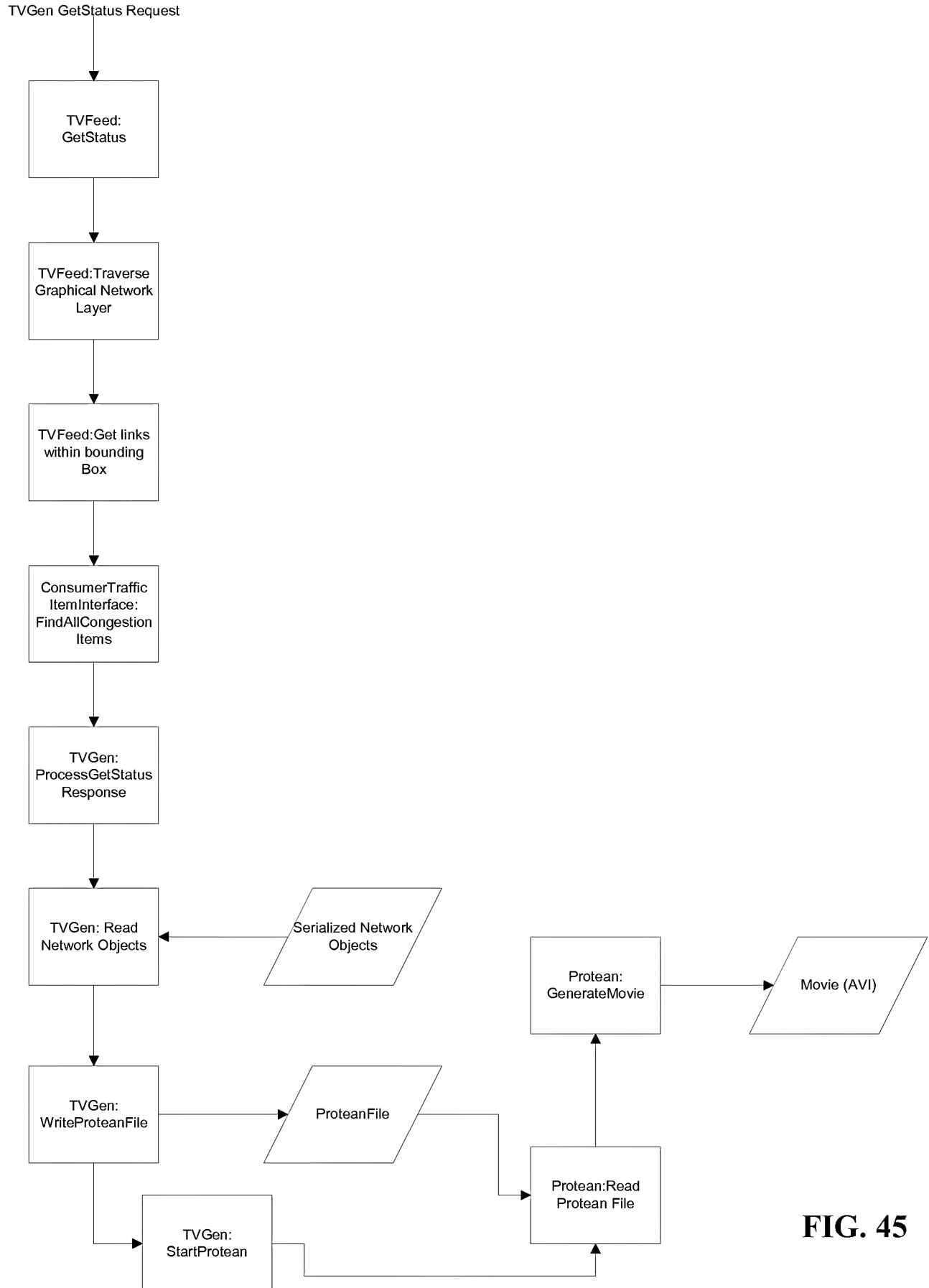
222

FIG. 43

360

76/202/422						
14:36	2	NB	RT-202:	slow approaching RT-30 to past RT-30 due to accident 2min RT-401 to approaching RT-29, avg speed 54mph sluggish Swedesford Rd Exit to Ramp to 76 East due to disabled vehicle blocking left lane		

**FIG. 44**



REPLACEMENT SHEET

(Application No. 10/611,494)

```
<?xml version="1.0" encoding="UTF-8"?>
<GRAPHICAL_NETWORK>
  <TIMESTAMP VALUE="20-Nov-2002 06:11:26 EST"/>
  <ROADWAY ID="212">
    <DESCRIPTION><![CDATA[SR-408]]></DESCRIPTION>
    <DIRECTION VALUE="W">
      <SEGMENTS>
        <SEGMENT ID="GraphicalLink(102N04949) down|VisibleCompoundLink(102-04948-&gt;102N04942)| up">
          <RAW_DESCRIPTION><![CDATA[91|1|2790121<M>91|1|2790091> GraphicalLink(102N04949) down|VisibleCompoundLink(102-04948->102N04942)| up> 91|1|2790091<M>91|1|2784216(versionid=Q42001, tableid=2, rdstmc=[102N04949, 102-04948, 102N04948, 102-04947, 102N04947, 102-04946, 102N04946, 102-04945, 102N04945, 102-04944, 102N04944, 102-04943, 102N04943, 102-04942, 102N04942], ebucc=1, pid=[1948, 1948, 1947, 1946, 1945, 1944, 1943, 1942], lfeid=[91|1|86418, 91|1|106005, 91|1|86420, 91|1|86422, 91|1|13477, 91|1|13478, 91|1|100271, 91|1|100270, 91|1|86555, 91|1|86556, 91|1|86557, 91|1|13475, 91|1|13473, 91|1|580267, 91|1|580268, 91|1|580269, 91|1|86570, 91|1|13470, 91|1|13469, 91|1|86662, 91|1|580261, 91|1|580265, 91|1|580260], edgeid=[22398135, 22424476, 22396138, 22396140, 17009629, 17009630, 22415974, 22415973, 22398295, 22398296, 22398298, 17009628, 17009627, 23243703, 23243702, 23243704, 22398316, 17009602, 17009601, 22398423, 23243697, 23243701, 23243696], rdsdir=[-, N], roadwayDirDetails=[212] W|ACTIVE|SR-408], locationid=[04949, 04948, 04947, 04946, 04945, 04944, 04943, 04942], isramp=N, location=[SR-436/EXIT 14, HOLLAND EAST MAIN TOLL PLAZA, SR-15/S CONWAY RD/EXIT 13, CRYSTAL LK DR/EXIT 12, BUMBY AVE/EXIT 12, MILLS AVE/EXIT 11, ROSALIND AVE/EXIT 11, DELANEY AVE/EXIT 10]]></RAW_DESCRIPTION>
          <RDSTMC><![CDATA[102N04949|102-04948|102N04948|102-04947|102N04947|102-04946|102N04946|102-04945|102N04945|102-04944|102N04944|102-04943|102N04943|102-04942|102N04942]]></RDSTMC>
          <LOCATION><![CDATA[SR-436/EXIT 14|HOLLAND EAST MAIN TOLL PLAZA|SR-15/S CONWAY RD/EXIT 13|CRYSTAL LK DR/EXIT 12|BUMBY AVE/EXIT 12|MILLS AVE/EXIT 11|ROSALIND AVE/EXIT 11|DELANEY AVE/EXIT 10]]></LOCATION>
          <GEOLOCATION LATITUDE="28.53955" LONGITUDE="-81.31342"/>
          <GEOLOCATION LATITUDE="28.53961" LONGITUDE="-81.31422"/>
          <GEOLOCATION LATITUDE="28.53967" LONGITUDE="-81.31497"/>
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        <SEGMENT ID="GraphicalLinkVisibleCompoundLink(102-04948-&gt;102N04942)| down|102-04941| up">
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          <RDSTMC><![CDATA[102-04948|102N04948|102-04947|102N04947|102-04946|102N04946|102-04945|102N04945|102-04944|102N04944|102-04943|102N04943|102-04942|102N04942|102-04941]]></RDSTMC>
          <LOCATION><![CDATA[HOLLAND EAST MAIN TOLL PLAZA|SR-15/S CONWAY RD/EXIT 13|CRYSTAL LK DR/EXIT 12|BUMBY AVE/EXIT 12|MILLS AVE/EXIT 11|ROSALIND AVE/EXIT 11|DELANEY AVE/EXIT 10|I-4/EXIT 10]]></LOCATION>
          <GEOLOCATION LATITUDE="28.53835" LONGITUDE="-81.34775"/>
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          <GEOLOCATION LATITUDE="28.53789" LONGITUDE="-81.36125"/>
          <GEOLOCATION LATITUDE="28.53751" LONGITUDE="-81.36296"/>
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          <GEOLOCATION LATITUDE="28.53734" LONGITUDE="-81.36421"/>
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          <GEOLOCATION LATITUDE="28.53725" LONGITUDE="-81.37151"/>
          <GEOLOCATION LATITUDE="28.53725" LONGITUDE="-81.37288"/>
          <GEOLOCATION LATITUDE="28.53719" LONGITUDE="-81.37354"/>
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          <GEOLOCATION LATITUDE="28.53688" LONGITUDE="-81.37502"/>
          <GEOLOCATION LATITUDE="28.53664" LONGITUDE="-81.37578"/>
          <GEOLOCATION LATITUDE="28.53624" LONGITUDE="-81.37771"/>
          <GEOLOCATION LATITUDE="28.53613" LONGITUDE="-81.37732"/>
          <GEOLOCATION LATITUDE="28.53603" LONGITUDE="-81.37767"/>
          <GEOLOCATION LATITUDE="28.53587" LONGITUDE="-81.37817"/>
          <GEOLOCATION LATITUDE="28.5356" LONGITUDE="-81.37912"/>
        </SEGMENT>
      </SEGMENTS>
    </DIRECTION>
  </ROADWAY>
</GRAPHICAL_NETWORK>
```

FIG. 46

(Application No. 10/611,494)

379

FIG. 47

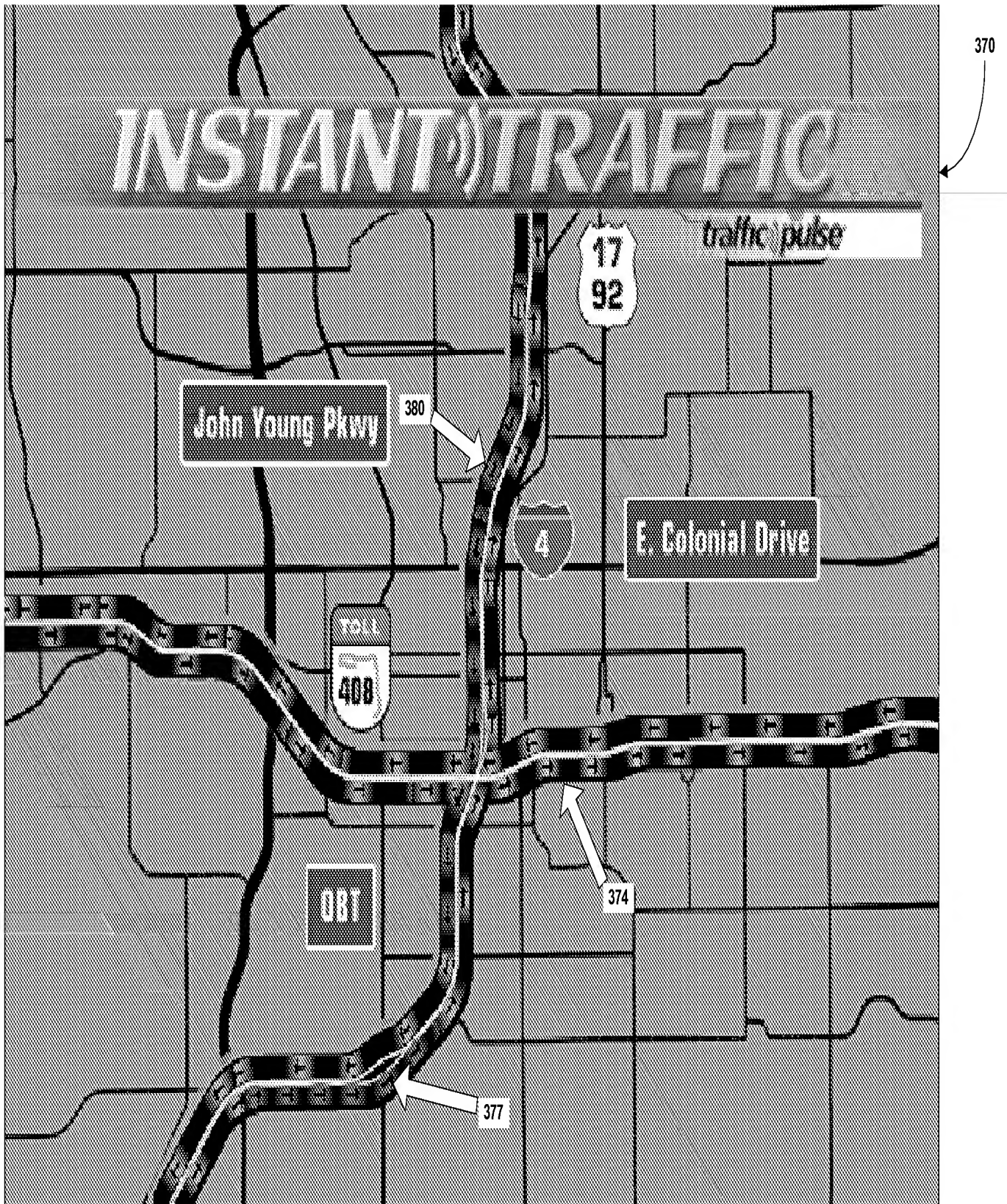


FIG. 48

File Edit View Favorites Tools Help

Address https://tms.traffic.com/servlet/Controller?appName=tms&workflowname=get_items&state=present&homeMetro=Orlando&homeMetroId=23 Go Links

Mobility
Traffic Management System

Select Metro Area: **Orlando** Display Column Headers [Enable/Disable Keyroutes](#) [Admin](#) | [Traffic](#) | [Change Password](#) | [Log Out](#)

ADD CONGESTION ADD INCIDENT ADD EVENT ADD NEWS

Critical Items: 0 Blinking Items: 0 Past **Current** Future

FILTER BY: Criticality **All** Defined Roadway **All** Desc Type **Local**

☐ Expired Items

☐ Defined Roadways

<input type="checkbox"/> East-West Exwy/SR-408 : EB	MANAGE ROADWAY
16:42 Oct 29 2 X EB East-West Exwy/SR-408 generally slow Bumby Av to Conway Rd Toll Plaza	
<input type="checkbox"/> I-4 : EB	MANAGE ROADWAY
16:06 Oct 29 2 X EB I-4 jammed approaching East-West Exwy/SR-408	
<input type="checkbox"/> I-4 : WB	MANAGE ROADWAY
15:50 Oct 29 2 X WB I-4 jammed Ivanhoe Blvd to Orange Blossom Tr	
<input type="checkbox"/> US-17/92 : NB	MANAGE ROADWAY
5:00 Oct 24 3 CONST X NB US-17/92 between Weldon Blvd and SR-46 - Sidewalk Construction - Expect intermittent lane blockage during night time hours.	
<input type="checkbox"/> US-17/92 : SB	MANAGE ROADWAY
5:00 Oct 24 3 CONST X SB US-17/92 between Weldon Blvd and SR-46 - Sidewalk Construction - Expect intermittent lane blockage during night time hours.	
<input type="checkbox"/> US-192 : EB	MANAGE ROADWAY
17:08 Oct 29 2 ACC X EB US-192 at Orange Lake Blvd - accident - FHP on the scene.	

Done Internet

222

372

375

378

FIG. 49

TIME = T₀

Roadway 1000	Sensor 1001					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	57	40	6	13	
2	NorthBound	53	35	3	17	
3	NorthBound	55	38	7	10	55
4	SouthBound	60	25	7	9	
5	SouthBound	63	36	8	7	
6	SouthBound	61	30	4	10	61

Roadway 1000	Sensor 1002					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	56	38	5	14	
2	NorthBound	55	40	4	16	
3	NorthBound	52	41	5	11	54
4	SouthBound	62	27	7	10	
5	SouthBound	60	34	8	8	
6	SouthBound	59	32	4	12	60

Roadway 1000	Sensor 1003					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	55	42	7	15	
2	NorthBound	50	37	2	12	
3	NorthBound	52	35	5	14	52
4	SouthBound	59	22	3	10	
5	SouthBound	61	32	4	6	
6	SouthBound	63	34	5	9	61

Roadway 1000	Sensor 1004					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	51	36	3	16	
2	NorthBound	55	40	5	13	
3	NorthBound	56	39	4	12	54
4	SouthBound	62	22	3	8	
5	SouthBound	59	30	6	11	
6	SouthBound	65	29	5	9	62

Roadway 1000	Sensor 1005					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	55	37	5	12	
2	NorthBound	56	39	3	16	
3	NorthBound	51	40	7	10	54
4	SouthBound	62	25	7	9	
5	SouthBound	58	31	8	8	
6	SouthBound	59	32	4	10	60

FIG. 50

TIME = T₀

Roadway 2000	Sensor 2010					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	53	35	5	15	
2	NorthBound	50	39	3	12	
3	NorthBound	56	38	4	16	53
4	SouthBound	58	21	5	9	
5	SouthBound	61	28	6	10	
6	SouthBound	62	30	5	7	60

Roadway 2000	Sensor 2011					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	55	33	3	14	
2	NorthBound	58	36	5	15	
3	NorthBound	52	40	6	12	55
4	SouthBound	59	25	6	10	
5	SouthBound	58	29	8	8	
6	SouthBound	61	30	5	9	59

FIG. 51

TIME = T_0

Link	Avg Speed (MPH)	Length	Travel Time (min)	Comments
100	55.0	0.7	0.7636	
101	54.3	0.34	0.3755	
102	53.2	0.73	0.8238	assumed equal weighting to each sensor
103	54.0	0.51	0.5667	
104	54.0	0.24	0.2667	
105	54.0	0.14	0.1556	
110	55.0	0.8	0.8727	
111	55.0	0.34	0.3709	
112	55.0	0.73	0.7964	
113	55.0	0.47	0.5127	
114	55.0	0.25	0.2727	
115	55.0	0.16	0.1745	
201	53.0	2.19	2.4792	
202	53.7	0.08	0.0893	0.416 miles to sensor 2011 0.237 miles to sensor 2010
203	55.0	0.42	0.4582	assume negligible effect from sensor 2010
204	55.0	0.81	0.8836	
205	55.0	0.59	0.6436	
210	55.0	2.27	2.4764	
211	55.0	0.08	0.0873	0.416 miles to sensor 2011 0.237 miles to sensor 2010
212	55.0	0.34	0.3709	assume negligible effect from sensor 2010
213	55.0	0.73	0.7964	
214	55.0	0.65	0.7091	

FIG. 52

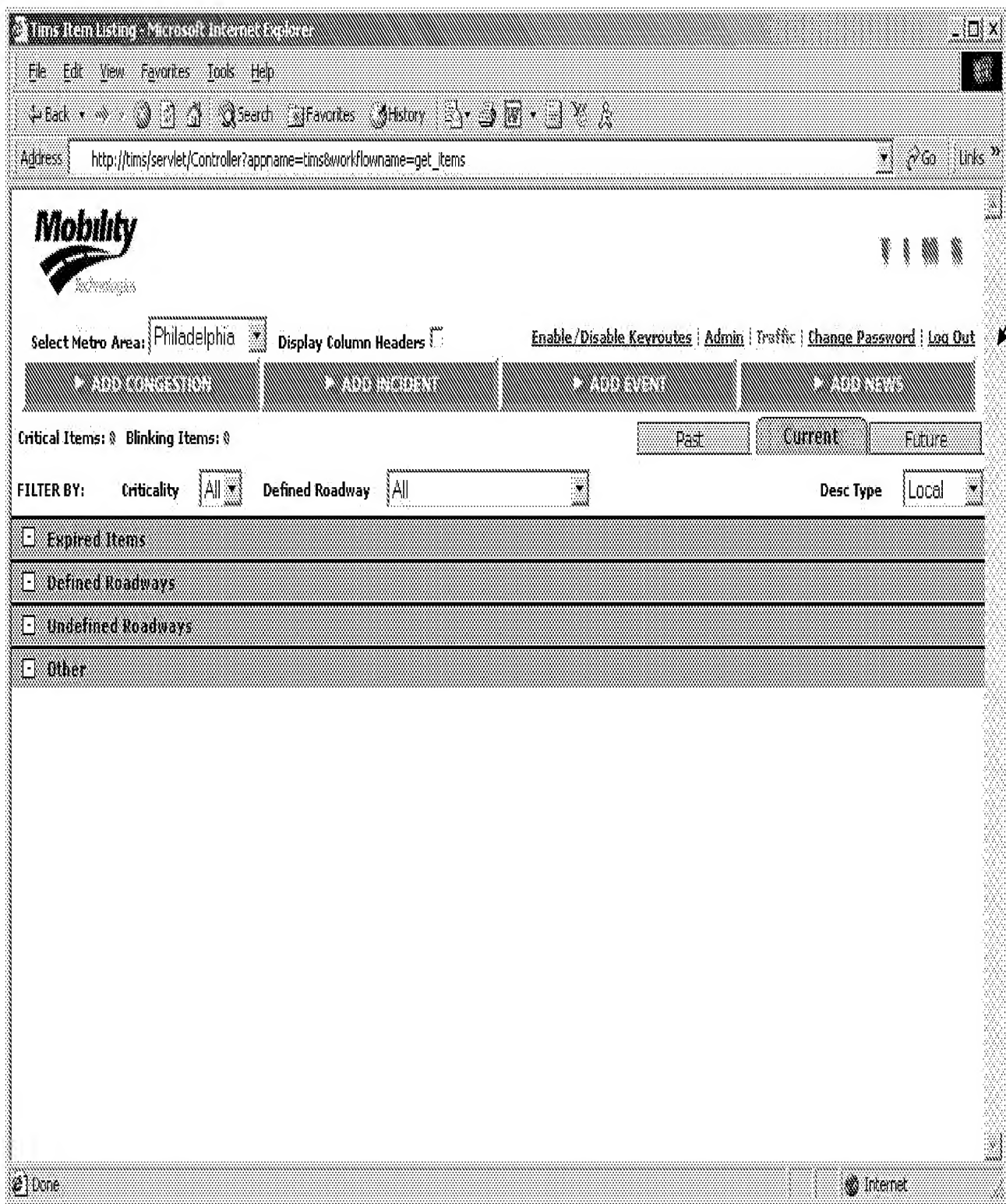


FIG. 53

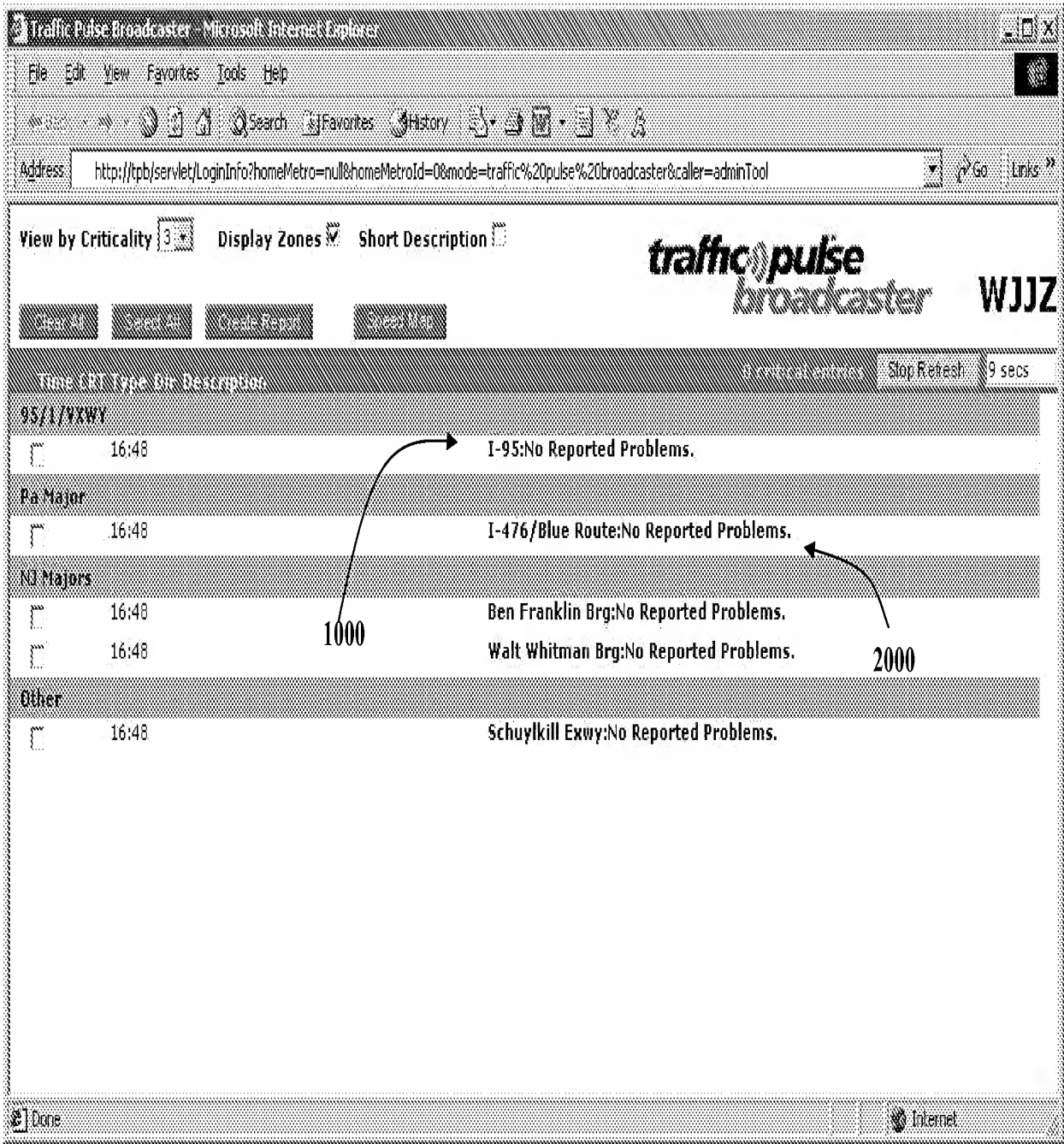


FIG. 54

360

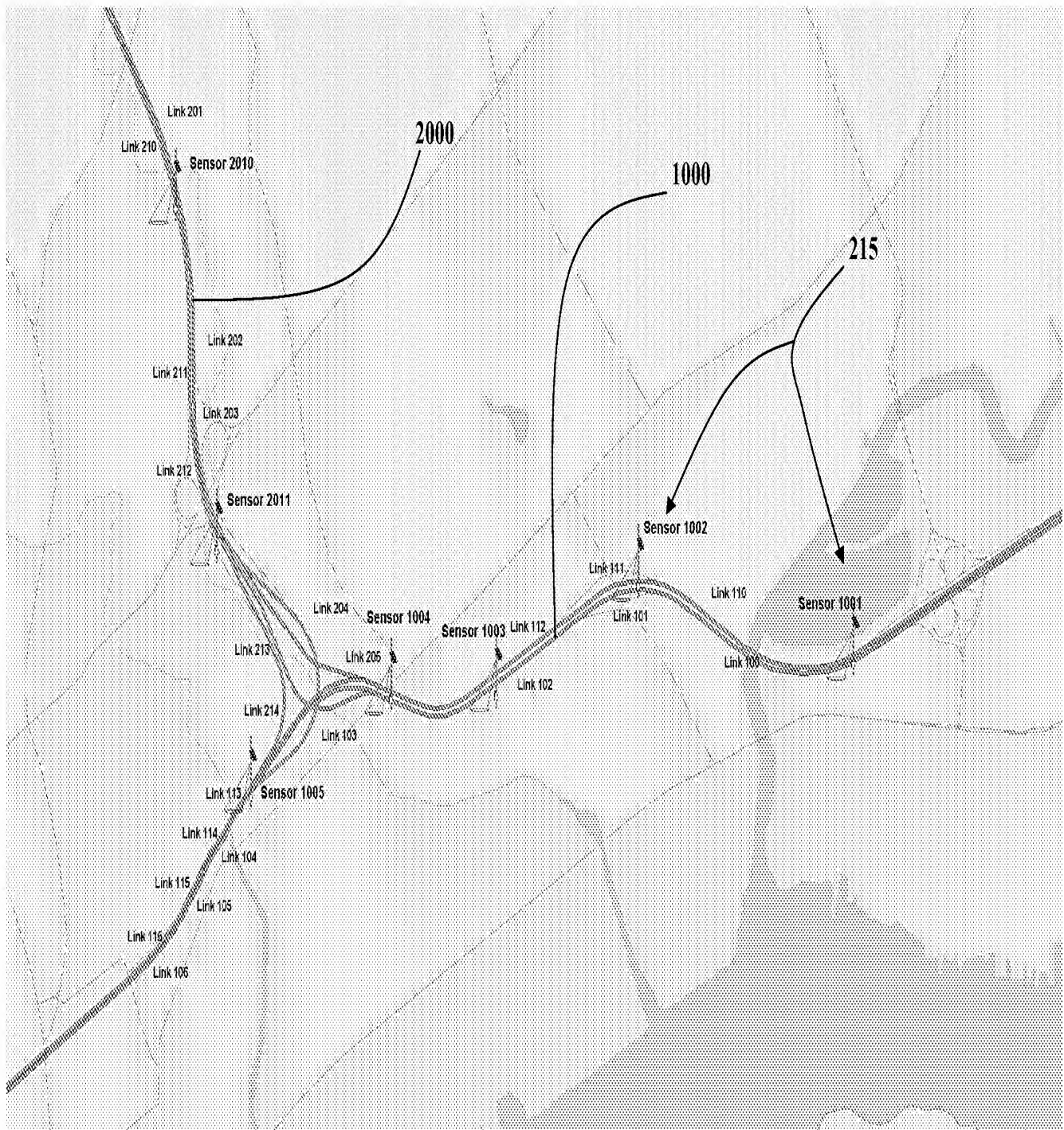


FIG. 55

REPLACEMENT SHEET

(Application No. 10/611,494)

TIME = T₁

Roadway 1000	Sensor 1001					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	57	40	6	13	
2	NorthBound	53	35	3	17	
3	NorthBound	55	38	7	10	55
4	SouthBound	60	25	7	9	
5	SouthBound	63	36	8	7	
6	SouthBound	61	30	4	10	61

Roadway 1000	Sensor 1002					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	56	25	5	9	
2	NorthBound	55	28	4	10	
3	NorthBound	52	29	5	11	54
4	SouthBound	50	27	7	15	
5	SouthBound	49	34	8	16	
6	SouthBound	48	32	4	12	49

Roadway 1000	Sensor 1003					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	49	25	7	28	
2	NorthBound	23	29	2	31	
3	NorthBound	22	28	5	33	22
4	SouthBound	59	22	3	10	
5	SouthBound	61	32	4	6	
6	SouthBound	63	34	5	9	61

Roadway 1000	Sensor 1004					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	51	36	3	16	
2	NorthBound	55	40	5	13	
3	NorthBound	56	39	4	12	54
4	SouthBound	62	22	3	8	
5	SouthBound	59	30	6	11	
6	SouthBound	65	29	5	9	62

Roadway 1000	Sensor 1005					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	55	37	5	12	
2	NorthBound	56	39	3	16	
3	NorthBound	51	40	7	10	54
4	SouthBound	62	25	7	9	
5	SouthBound	58	31	8	8	
6	SouthBound	59	32	4	10	60

FIG. 56

TIME = T₁

Roadway 2000	Sensor 2010					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	55	37	6	16	
2	NorthBound	51	39	2	12	
3	NorthBound	54	34	3	13	53
4	SouthBound	59	21	5	7	
5	SouthBound	60	25	4	9	
6	SouthBound	63	30	3	11	61

Roadway 2000	Sensor 2011					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	53	35	6	17	
2	NorthBound	56	31	2	15	
3	NorthBound	53	39	5	13	54
4	SouthBound	62	24	2	8	
5	SouthBound	59	28	7	7	
6	SouthBound	61	31	4	9	61

FIG. 57

REPLACEMENT SHEET

(Application No. 10/611,494)

TIME = T₁

Link	Avg Speed (MPH)	Length	Travel Time (min)	Comments
100	55.0	0.7	0.7636	
101	54.3	0.34	0.3755	
102	37.5	0.73	1.1680	assumed equal weighting to each sensor
103	54.0	0.51	0.5667	
104	54.0	0.24	0.2667	
105	54.0	0.14	0.1556	
110	55.0	0.8	0.8727	
111	49.0	0.34	0.4163	
112	55.0	0.73	0.7964	
113	55.0	0.47	0.5127	
114	55.0	0.25	0.2727	
115	55.0	0.16	0.1745	
201	53.3	2.19	2.4638	
202	53.6	0.08	0.0896	0.416 miles to sensor 2011 0.237 miles to sensor 2010
203	54.0	0.42	0.4667	assume negligible effect from sensor 2010
204	53.0	0.81	0.9170	
205	54.5	0.59	0.6495	
210	55.0	2.27	2.4764	
211	55.0	0.08	0.0873	0.416 miles to sensor 2011 0.237 miles to sensor 2010
212	55.0	0.34	0.3709	assume negligible effect from sensor 2010
213	55.0	0.73	0.7964	
214	55.0	0.65	0.7091	

FIG. 58

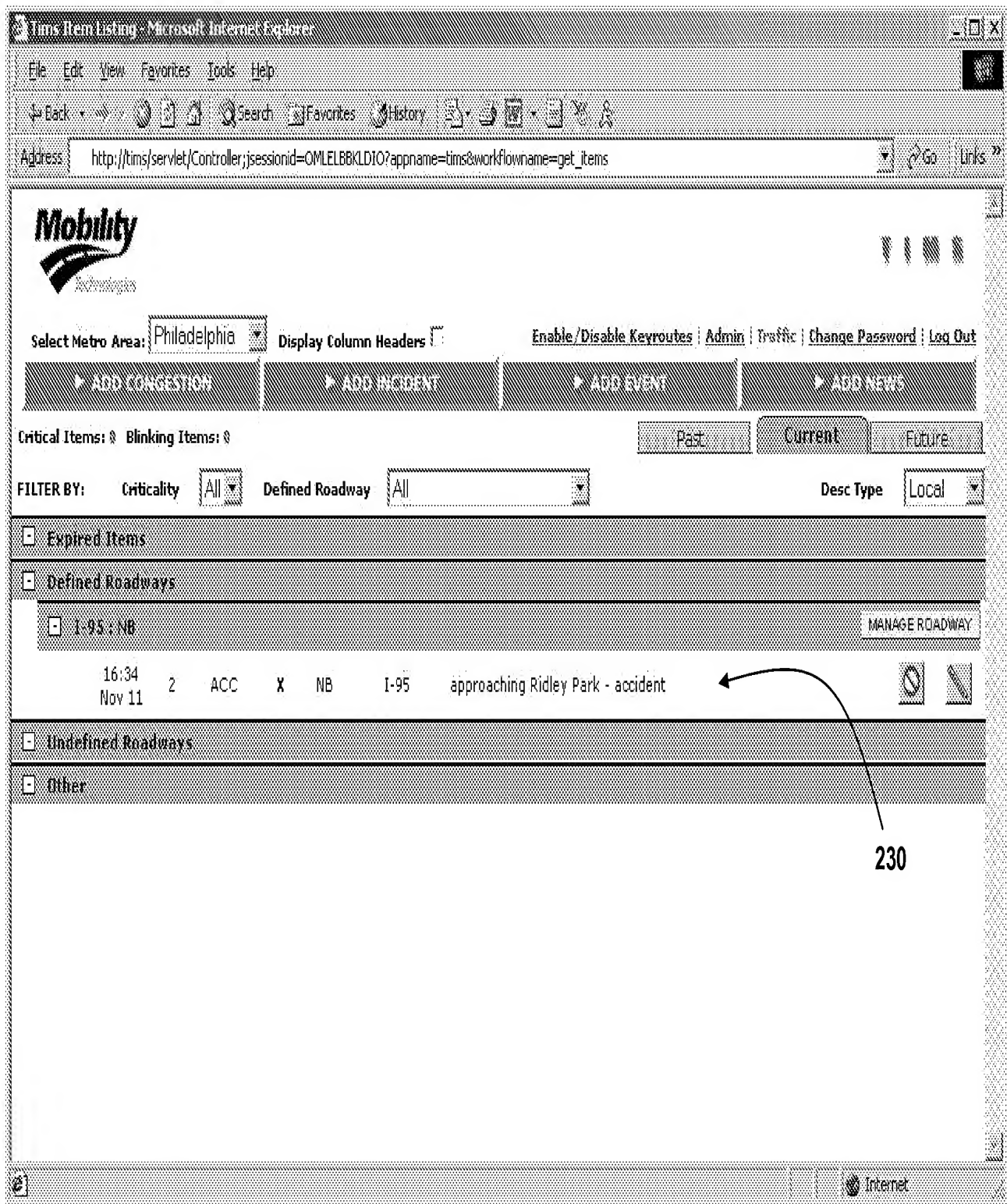


FIG. 59

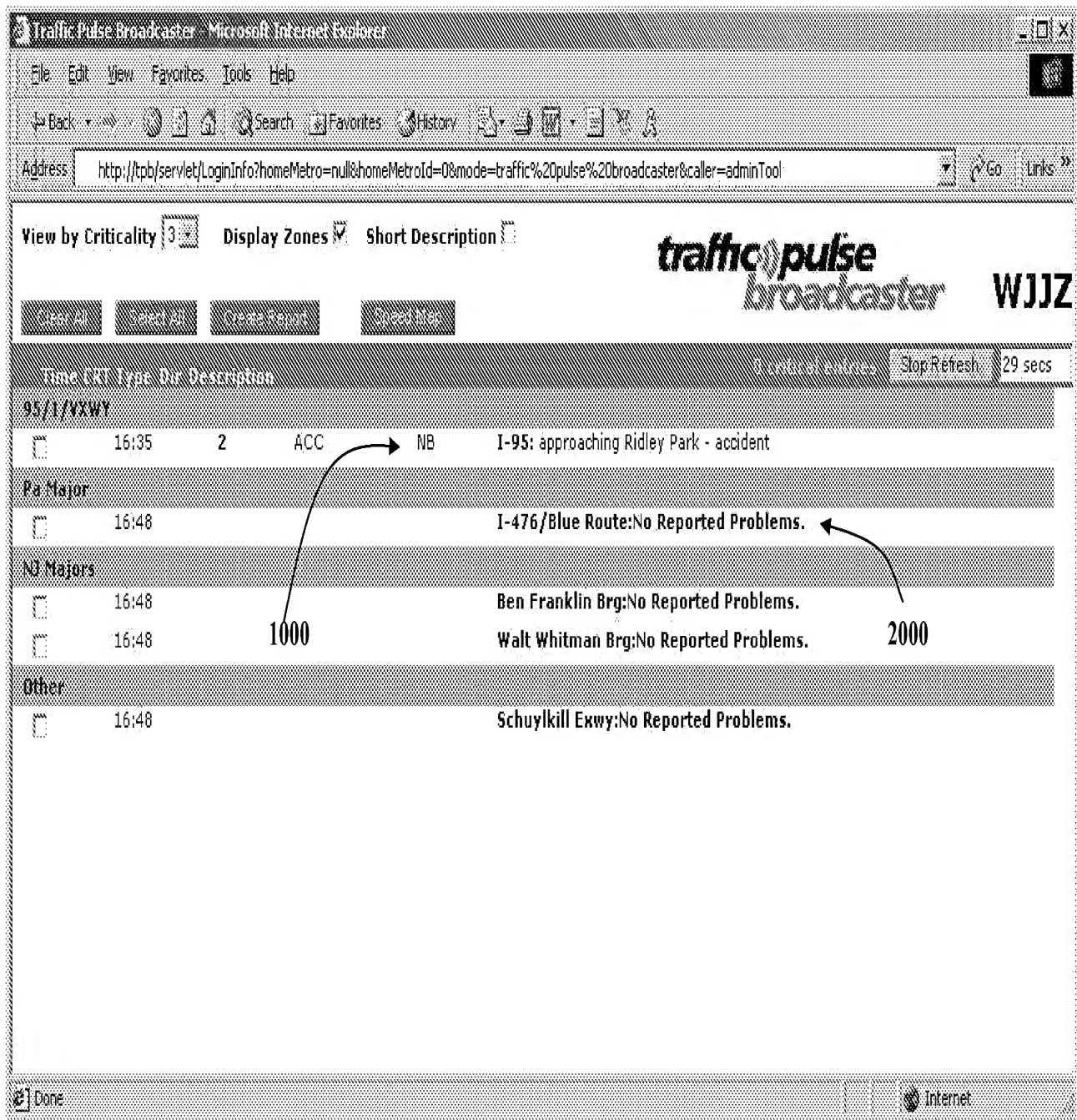


FIG. 60

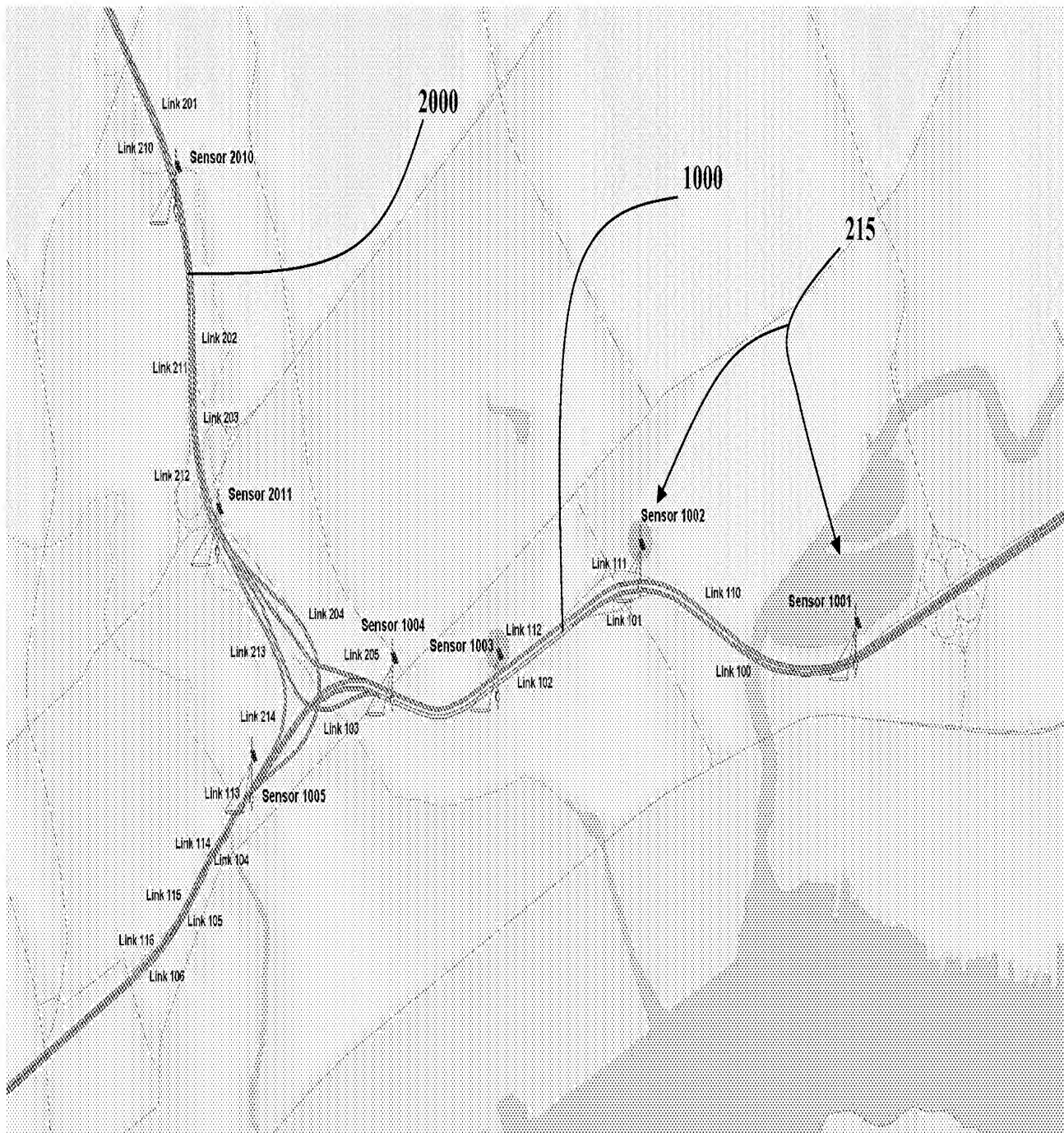


FIG. 61

REPLACEMENT SHEET

(Application No. 10/611,494)

TIME = T₂

Roadway 1000	Sensor 1001					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	65	35	4	8	
2	NorthBound	68	30	3	6	
3	NorthBound	65	32	5	7	66
4	SouthBound	48	32	6	14	
5	SouthBound	53	35	8	9	
6	SouthBound	55	29	5	10	52

Roadway 1000	Sensor 1002					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	64	25	3	7	
2	NorthBound	70	22	2	6	
3	NorthBound	68	19	3	4	67
4	SouthBound	28	40	6	30	
5	SouthBound	24	38	5	27	
6	SouthBound	23	32	4	26	22

Roadway 1000	Sensor 1003					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	4	8	1	48	
2	NorthBound	6	11	1	40	
3	NorthBound	7	18	2	37	6
4	SouthBound	65	18	4	8	
5	SouthBound	71	30	5	5	
6	SouthBound	68	29	4	5	68

Roadway 1000	Sensor 1004					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	18	28	4	40	
2	NorthBound	14	24	6	37	
3	NorthBound	12	18	4	42	12
4	SouthBound	63	27	4	7	
5	SouthBound	68	30	3	8	
6	SouthBound	64	26	7	6	65

Roadway 1000	Sensor 1005					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	37	30	2	22	
2	NorthBound	32	34	3	24	
3	NorthBound	40	32	1	16	36
4	SouthBound	62	25	7	9	
5	SouthBound	58	31	8	8	
6	SouthBound	59	32	4	10	60

FIG. 62

REPLACEMENT SHEET

(Application No. 10/611,494)

TIME = T₂

Roadway 2000	Sensor 2010					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	51	35	6	16	
2	NorthBound	53	41	4	13	
3	NorthBound	54	38	4	18	53
4	SouthBound	45	22	2	5	
5	SouthBound	49	30	1	4	
6	SouthBound	53	28	1	5	49

Roadway 2000	Sensor 2011					
Lane	Direction	Speed	Volume	Long Volume	Density	Smoothed Speed (per Dir)
1	NorthBound	56	35	3	17	
2	NorthBound	52	34	6	15	
3	NorthBound	55	39	3	13	54
4	SouthBound	46	24	0	35	
5	SouthBound	42	18	2	39	
6	SouthBound	34	35	2	27	21

FIG. 63

REPLACEMENT SHEET

(Application No. 10/611,494)

TIME = T₂

Link	Avg Speed (MPH)	Length	Travel Time (min)	Comments
100	55.0	0.7	0.7636	
101	55.0	0.34	0.3709	
102	8.8	0.73	4.9585	assumed equal weighting to each sensor
103	24.2	0.51	1.2662	
104	36.3	0.24	0.3963	6.852220398
105	36.3	0.14	0.2312	
110	52.0	0.8	0.9231	
111	22.3	0.34	0.9134	
112	55.0	0.73	0.7964	
113	55.0	0.47	0.5127	
114	55.0	0.25	0.2727	
115	55.0	0.16	0.1745	
201	52.7	2.19	2.4949	
202	53.3	0.08	0.0901	0.416 miles to sensor 2011 0.237 miles to sensor 2010
203	54.3	0.42	0.4638	assume negligible effect from sensor 2010
204	55.0	0.81	0.8836	
205	53.5	0.59	0.6617	
210	49.0	2.27	2.7796	
211	38.7	0.08	0.1240	0.416 miles to sensor 2011 0.237 miles to sensor 2010
212	20.7	0.34	0.9871	assume negligible effect from sensor 2010
213	16.0	0.73	2.7375	
214	23.0	0.65	1.6957	

Congestion Item Calculations

Past 320 to Ridley Park		
Travel time (min)	6.85	7
Delay (min)	5.08	5
Avg Speed (MPH)	14.19	14

420 to Ridley Park (SB)		
Travel time (min)	1.84	2
Delay (min)	0.59	1
Avg Speed (MPH)	37.24	37

MacDade to I-95		
Travel time (min)	3.72	4
Delay (min)	2.56	3
Avg Speed (MPH)	17.24	17

FIG. 64

Times Item Listing - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Search Favorites History

Address http://tims/servlet/Controller;jsessionid=BGMNPDTHHAG?appName=tims&workflowname=get_items Go Links

Mobility
Technologies

Select Metro Area: Philadelphia Display Column Headers Enable/Disable Keyroutes Admin Traffic Change Password Log Out

ADD CONGESTION ADD INCIDENT ADD EVENT ADD NEWS

Critical Items: 0 Blinking Items: 0 Past Current Future

FILTER BY: Criticality All Defined Roadway All Desc Type Local

☐ Expired Items

☐ Defined Roadways

☐ I-476/Blue Route - SB MANAGE ROADWAY

16:40 Nov 11	2	X	SB	I-476/Blue Route	4min (+3) MacDade Blvd (#1) to I-95, avg speed 17mph (generally jammed)		
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☐ I-95 : NB MANAGE ROADWAY

16:38 Nov 11	2	ACC	X	NB	I-95	approaching Ridley Park - accident		
16:34 Nov 11	2		X	NB	I-95	7min (+5) past RT-320 to Ridley Park, avg speed 14mph (generally jammed)		

☐ I-95 : SB MANAGE ROADWAY

16:39 Nov 11	2		X	SB	I-95	2min (+1) past RT-420 to Ridley Park; avg speed 37mph (slow)		
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☐ Undefined Roadways

☐ Other

Done Internet

230

FIG. 65

222

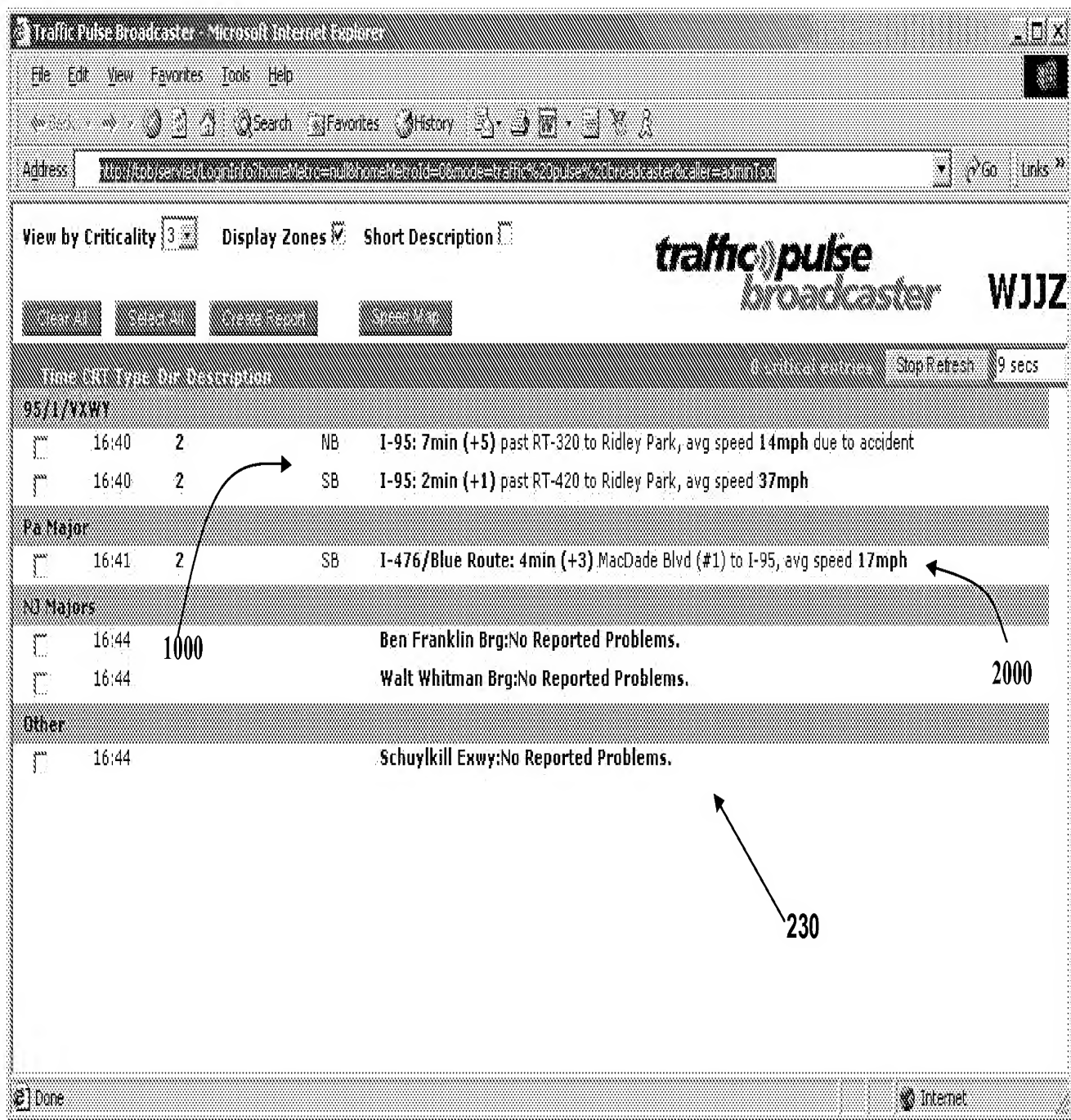


FIG. 66

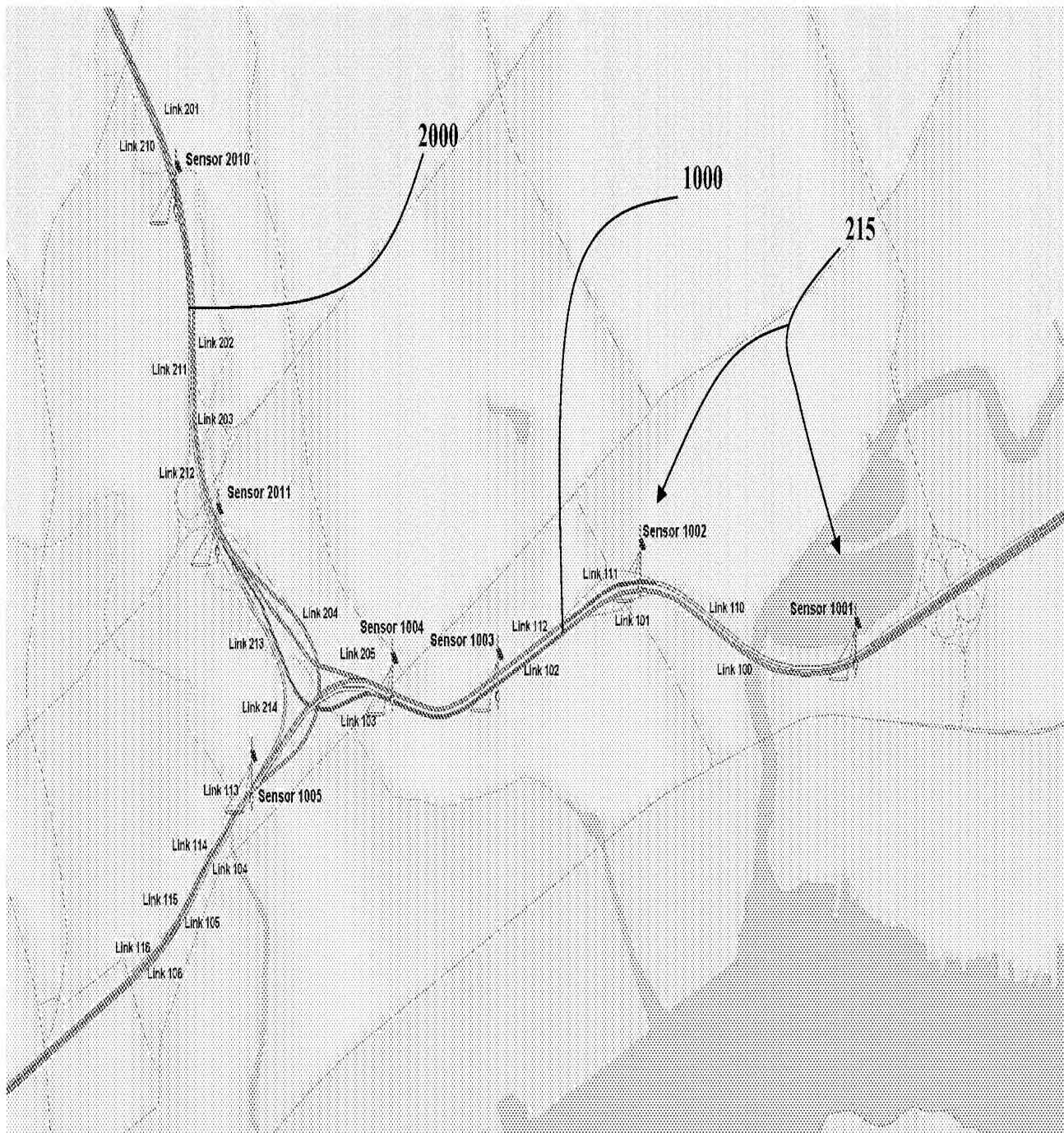


FIG. 67